FEBRUARY 1981

REPEATER JOURNAL

CVRA-SouthEastern Repeater Association, Inc.

REPRESENTING UHF-VHF INTERESTS THROUGHOUT VIRGINIA, NORTH CAROLINA, SOUTH CAROLINA, TENNESSEE, & WEST VIRGINIA

CVRA INITIATES COST-CUTTING MEASURES NO MEMBERSHIP FEE INCREASE THIS YEAR

The Membership and Publications Committee and the Treasurer of CVRA-Southeastern Repeater Association have concluded an in-depth study of cost-cutting measures for the organization.

At the annual meeting in January, Lane Tarleton, President of CVRA recommended ways be found to cut costs rather than increase membership fees.

Wayne C. Williams, chairman of the Publications Committee worked with Larry McLaurin of the Membership committee and came up with several ideas which could possibly save $700 to $900 yearly for the CVRA. The idea proposals were submitted and approved by the President and are in effect immediately. In brief here they are:

RENEWAL NOTICES - Only one renewal notice will be sent to members whose membership is about to expire. Previously two reminders were sent. This will have a dramatic effect on membership postage.

ADDRESS CORRECTION AND FORWARDING of the REPEATER JOURNAL will be eliminated immediately. These two items were costing us over $50 per month. It is felt that it will be much simpler for members who move, be responsible for notifying the organization, instead of us having to pay for the address correction, and the forwarding of the Journal to the new address by the post office.

NEW MEMBERS joining CVRA for the first time will no longer receive that "complimentary" Journal through the mail after joining. The new system will have Membership deadlines, 2 weeks prior to the month the Journal is normally published in February, May, August and November. Persons joining in time before the deadline will receive the forthcoming issue. Persons joining after the deadline, or after an issue is published will receive the next scheduled issue a couple of months away. Persons joining at hamfests will still receive the complimentary 5th issue upon joining as long as extra copies of the Journal are available. Each Journal costs 47-cents to mail 3rd class, and approximately 55-cents each to publish. Savings realized with this particular new rule will be hundreds of dollars yearly, not to mention paperwork.

Basically the new rules will be such that persons who do not send CVRA changes of address when they move, will not get a Journal until they do make the change. New members not joining before deadlines, through the mail will have to wait for the next regularly published Journal instead of getting that 5th "complimentary" copy immediately through the mails. And finally, members should check their mailing labels for their membership expiration date. They will receive only one reminder, then after 60 days if they haven't renewed will be dropped.

We certainly don't intend for these new rules to cause any of our members any hardships, on the contrary, we hope to prevent any membership fee increases by initiating such cost reduction measures.

—Wayne C. Williams, K4MOB
Editor/Publisher CVRA JOURNAL

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1981

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REPEATER JOURNAL

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ORGANIZED 1971

JOURNAL STAFF

EDITOR & PUBLISHER
Wayne C. Williams, K4MOB
600 Lakedale Road
Colfax, N.C. 27235
(919) 993-5881

TECHNICAL EDITOR
Watson Gabriel, WB4EXW
5939 Timberwood Trail
Kernersville, N.C. 27284
(919) 993-3110

CONTRIBUTING EDITOR
Michael K. Williams, KC4AO
123 Grandin Court
Danville, Va. 24541
(804) 793-8302 (Wkends)

ADV. & SALES MANAGER
Ken Holiday, WA4DYY
1923 Halifax Court
High Point, N.C. 27260
(919) 454-4845

CIRCULATION MANAGER
Jim Bartlett, KB4WD
4110 Summerglen Dr.
Greensboro, N.C. 27406
(919) 855-8161

JOURNAL PRINTED BY
Golden Triangle Pr. Co.
1006 N. Raleigh St.
Greensboro, N.C. 27401
(919) 273-8221

DEADLINE TO JOIN!

Deadline for new members to join CVRA and receive May Journal is April 15. After that date, they will receive the August Journal.

CVRA REPEATER JOURNAL EDITORIAL COMMENT

A Look Ahead into 1981 . . .

I don't profess to be an expert economist, and cannot predict an accurate future for CVRA, Amateur Radio and which way Amateur operations will shift, but 21 years of Amateur experience, and 8 years of traveling to 15 to 20 hamfests a year, I do feel I have a slight idea of how things develop and how certain trends form. Let's look into the coming year and see what might happen.

AMATEUR RADIO

Amateur Radio licenses made a big surge in 1978 and early 1979, only to settle back to a modest 6 to 8% growth rate in 1980. I feel 1981, what with plain language rules, more simplified plain language examinations, and continued deregulation by the FCC, will cause a sharp upswing in Amateur Radio licenses. These simplified factors will encourage clubs to conduct classes-thus filling the ranks with more Amateur operators. Another factor, the FCC reports that CB license requests are down sharply and renewals from the 1975-76 boom are amazingly low. Obviously the lack of renewals for the CB licenses show two things: (1) Too much clutter on the bands, and the operator quickly lost interest. (2) The operator lost a desire to attempt to operate on the CB band, but still has a keen desire to operate a two-way radio.

These thousands in category 2, are all candidates for Amateur Radio, just like the sharp influx of CB operators came into our ranks in 1978. They were frustrated with their band, but loved the idea of radio communications, so naturally sought Amateur Radio.

I predict we will see a 10 to 12% increase in Amateur Licenses in 1981.

VHF VS HF

The year 1981 will bring an influx of VHFers. With a surge of new Amateur licensees, many obtaining Technician licenses as an entrance grade, 2-meters will abound with new operators.

The VHF influx will cause something else to happen. Every new operator will get on 2-meters-obviously. With this crowding, and already limited channels available for new 2-meter repeaters in most areas, another band will surge forward in 1981.

The next band up, 220 mhz will spring up after holding steady for a couple of years. Users of 220 will be "old timers" from 2-meters, searching for less crowded conditions.

I believe some manufacturer somewhere is going to wake up in 1981, and start mass producing a 220 mhz transceiver at a modest price. This manufacturer is going to mop up. Heretofore, after the initual surge of cheap 220 radios

(Continued on Page 7)

CVRA OFFICERS AND COMMITTEE

PRESIDENT
Lane Terleton KC4CD
105 Hickory Knob Ct.
Fort Mill, S.C. 29715
(803) 547-2618

VICE PRESIDENT
Ted Goldthorpe WA4VCC
2090 Diamond Head Cir.
Fort Mill, S.C. 29715
(803) 548-0890

SECRETARY
Michael K. Williams KC4AO
123 Grandin Court
Danville, Va. 24541
(804) 793-8302 Wkends

TREASURER
Carl Smith N4AA
P.O. Box 6843
Asheville, N.C. 28806

REPEATER MEMBERSHIP
(Owners & Rptr. Oper)
Gerry Butts
CVRA FULL MEMBERSHIP
P.O. BOX 5655
Greensboro, N.C. 27403
(919) 993-5856

ASSOCIATE MEMBERSHIP
(Repeater Users)
Larry McLaurin WB4VJE
CVRA ASSOC. MEMBERSHIP
P.O. Box 5655
Greensboro, N.C. 27403
(919) 273-3112

ASSOC. MBR. ASSISTANT
Lindsay Cleveland W4IZI
848 West Lincoln Ave.
Wheaton, Illinois 60187
(312) 668-2231

ASSOC. MBR. ASSISTANT
DAVID WARD KA4LVO
3910 LA GRANGE DRIVE
GREENSBORO, N.C. 28555

N.C. ASSOC. MBR. ASST.
Gale Henley KA4ACU
3805 Coral Lane
Winston-Salem, N. C. 27106
(919) 924-6807

REPEATER JOURNAL

FEB-APR 1981

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SPECIAL NOTICE: Membership deadlines to receive current REPEATER JOURNAL are now two weeks PRIOR to regularly scheduled months of publication, February, May, August and November. Applications received after deadlines will not receive a Journal until the next scheduled issue is published. Memberships received at hamfests will receive a current Journal as long as supplies last.

DEADLINE FOR MAY-JULY JOURNAL IS APRIL 1

The CVRA REPEATER JOURNAL is published quarterly, during the months of February, May, August and November of each year and mailed free to members of CVRA—Southeastern Repeater Association, Inc. Permission is granted for quoting from the CVRA REPEATER JOURNAL providing credit is given. The CVRA will swap newsletters with other Repeater Councils and News Organizations on request. The CVRA REPEATER JOURNAL press run is 4,000 copies with circulation in excess of 3,300 copies and is entered as Third Class Mail at the Post Office in Greensboro, N.C. Full and Associate Membership mailing address is: CVRA, P.O. Box 5655, Greensboro, N.C. 27403. All news and Newsletter exchanges should be mailed to the Editor and Publisher of the CVRA REPEATER JOURNAL, Wayne C. Williams, K4MOB, 600 Lakedale Road, Colfax, N.C. 27235.

CVRA JOURNAL 1981 REPEATER HONOR ROLL

THE HONOR ROLL

We passed the century mark this year for the first time with 102 full memberships in, representing 122 repeaters in 6 states. In 1980 we came in with 85 memberships for the Honor roll, representing 115 repeaters. We had 67 memberships in 1979 and 28 in 1978 who made the Jan. 1 deadlines.

Again, as expected North Carolina lead the way with 43 Full memberships, representing 50 repeaters. (This was expected since N.C. has more repeaters). Virginia again placed second as they did last year with 18 memberships representing 24 repeaters. South Carolina regained third place this year with 15 memberships representing 17 repeaters. Our youngest District, West Virginia squeaked fourth place from Tennessee with 13 memberships representing 13 repeaters, while Tennessee fell from third in 1980 to fifth place this year with 12 memberships representing 17 repeaters. As of Jan. 1, only 1 Georgia repeater group had joined for 1981.

The CVRA REPEATER JOURNAL Honor Roll consists of Full Member repeaters who renewed or joined the organization prior to or about Jan. 1, 1981. All Full Member repeater memberships expired at midnight December 31, 1980, and will be held on our membership roster until they renew, or dropped within 60 days if not renewed. The repeater index will be up-to-date as of January 19, 1981, the day the Repeater Journal went to the printer. Any new or renewed memberships received at our Greensboro Post Office Box on or prior to that date, are included as full members in the index. Repeaters marked with a "D" are 1980 Full members who have not renewed for 1981 and have until March 1, before they are dropped from membership. Of course repeaters marked with "N" are not 1981 members and were not members in 1980. We cordially invite them to join our organization. See page 2 of the Journal for Full Membership address.

NORTH CAROLINA

Albemarle — WR4BBX
Anderson Mt. — WD4LCE
Asheville — WA4QCO
Ashe/Mt. Pisgah (2) — WA4BVW
Asheville — NC4N
Burgaw — K4LZY
Burlington — W4VGZ
Charlotte — WB4KOH
Eden Stoneville — WD4DIP
Fayetteville — W4EHF
Fayetteville — WR4ANN
Fayetteville — W4LPL
Greensboro — K4SNI
Greensboro — WD4IPZ
Greensboro — WR4AOD
Grifton — W4NBR
Grifton — WR4ABP
High Point (5) — K4AZA
Hope Mills — WB4TRW
Lake Toxaway — WR4AGH
Lenoir — WR4ARG
Level Cross/Gbo — K4VUW
Locust — WR4BBA
Maco — WA4LED
Manteo — W4PCN
Monroe — WR4BBN
Mount Airy — WB4UJH
Mt Airy/Pipers Gap — WD4MDP
New Bern — WD4JMS
Newport — K4GRW
No. Wilkesboro — K4ITL
Raleigh — K4BWC
Raleigh (2) — K4ITL
Roanoke Rapids — K4PUV
Robbinsville — WB4ZQB
Rocky Mount — WD4HIG
Salisbury — W4EXU
Salisbury — W4EXU
Salisbury — W4EXU
Smithfield — WR4BBO
Statesville — AI40
Wilmington (2) — WR4AHL
Winston-Salem — WA4GIC

VIRGINIA

Blacksburg — WA4YRI
Briarpatch — WR4HR
Charlottesville (3) — WR4HR
Clifton Forge — K4QEL
Danville (2) — WB4GJG
Danville — WR4BDN
Farmville — WR4ASW
Forest — WR4ADY
Hampton — WR4ALW
Jonesville — WA4OVC
Johnsons Mtn. — WB4JBJ
Manassas — WICRO
Richmond — W4ZA
Saluda/Klmnark — WA4UAF
South Boston — WR4AYU
Waynesboro (3) — W4BLD
Winchester — W4RKC
Virginia Beach (2) — WA4KZV

SOUTH CAROLINA

Cheraw — WD4HEH
Greenville — W4AZT
Marion — W4YLT
Myrtle Beach — WA4JYR
N. Augusta — K4FKJ
Rock Hill — KA4RFA
Sasifrass Mt. — OI4X
Sumter — WR4AOI
Sumter — WA4UMU
Charleston — WR4BCP
Columbia (2) — WB4URY
Columbia (2) — K4ICL
Greenville — W4NYK
Greenville — W4NYK
N.W. Corner — W4GZL

WEST VIRGINIA

Bluefield — WD8OGY
Bluefield — W8MOP
Bridgeport — K8VNQ
Dunbar — K8VKI
Franklin — W3RUA
Morgantown — K8LG
Morgantown — W8CUL
Princeton — WB8NRK
Terra Alta — WB8PHU
St. Albans — WB8GDY
Richwood — K8VKB
Ravenswood — WA8USO
Welch — WB8SXZ

TENNESSEE

Sparta — W4BSA
Oak Ridge (2) — K4EAJ
La Follette — K4BGW
La Follette — W4TZG
Knoxville (2) — WA4YON
Knoxville (2) — WA4TEM
Knoxville (2) — WB4IOB
Johnson City — WA4DIU
Johnson City — WB4IKB
Greenville — WB4NKM
Chattanooga (3) — WA4ZOK
Manchester — WR4ACI

GEORGIA

Toccoa — KA4DIP

CVRA DISTRICT RAMBLINGS

Complied by Journal Staff

ROBBINSVILLE, N.C.—The 445-045 machine now has full autopatch facilities, covering the Robbinsville area. Facilities into neighboring Andrews is planned later. (Tom, WB4ZQB)

• • •

RICHMOND, VA.—The 34-94 Richmond ARC repeater sported Christmas greetings tapes to Amateurs during the holidays. The greetings, prepared by Janet Peckinpaugh, WWBT, Channel 12 personality, was well received. The repeater has information tapes available by punching 7-7-7- and your ID.

• • •

N. MYRTLE BEACH, S.C.—A new Grand Strand open repeater is planned for operation on 63-03. The new machine will be placed on top of the Mar Vista Motel. The Spec-Comm repeater should be placed in operation this month. The North Myrtle Beach VHF ARC will sponsor the machine. Members of the Grand Strand Radio Amateur Club have been working on the 01-61 repeater and have it working in excellent condition now. Both clubs invite beachgoers to use their machines. (Richard, WA4JYR)

• • •

FOREST CITY, N.C.—A new repeater on 84-24 is on the air now. The frequency was formerly in Shelby, but the machine is now off there and the Forest City location is using the frequency. WA4BKU, Bob Hill is trustee of the machine.

• • •

MONCKS CORNER, S.C.—The Berkeley ARS hopes to have their new SCR1000 repeater on the air this Spring. The machine will be on 75-15. It will be equipped with a Mark 3-C controller-autopatch, open to general Amateur use. The machine will be located about 1.2 miles east of the city of Moncks Corner. (William, WA4DDK)

• • •

FAYETTEVILLE, W.VA.—The Plateau ARA reports 6 students graduating from their novice class. Amateur Radio was demonstrated for nearly 40,000 pedestrians during Bridge Day celebration by the club. The 19-79 repeater was used extensively for communications among State Police, Dept. of Highways and Dept. of Natural Resources. Club officers for 1981 include: Bill Wilson, WA8YTM, Pres.; Dale Warrick, KA8EMX, VP; Bunny Barnhart, KA8DMF, Sec. and Bobby Wardrep, KA8GXV, Treasurer.

• • •

ASHEVILLE, N.C.—The Western Carolina ARS reports their new officers for 1981. They are: Jim Luther, WB4SXR, Pres.; John Johnson, WA4KNI, VP; Dan Henderson, Sec.; and Garland Lance, NC4N, Treasurer. During the holidays the club ran "operation Santa Claus", linking hospital children with the North Pole via 2 meters. The club is already making preparations for another outstanding Autumnfest this Fall. (Dan, WA4QQN)

• • •

DILLON, S.C.—The Dillon repeater is off the air temporarily. Dillon and Marion amateurs are joining together with others and formed the "The Greater Pee Dee Radio Society". The 145-745 repeater will be placed on the 1500 foot level of the WPDE-TV tower at Dillon, with expected "wide" coverage. The General Electric Master Pro repeater will have a DB224 antenna and Decibel Products duplexer. A Micro Control Specialties controller will control the machine. (Dan, KA4BGA)

• • •

SSB NETS—Here is a run down of the 2-meter SSB nets currently running: Virginia SSB Net, Thursday nite at 2100. South Carolina SSB net, Monday nite, 2100. North Carolina SWOT net, Tuesday at 2100. On 432, the East Coast 70 cm Net is held Wednesdays at 2100. On 6-meters, The Dixie SSB net is held on 50.125 Wednesday and Sunday at 2100. (Al, K4CAW)

• • •

LYNCHBURG, VA.—The 715-115 repeater on Johnson Mt. is now linked with the 223.22-224.82 repeater in Greensboro, N.C. for RTTY purposes. At times the Va. repeater is also linked to the Afton Mt. repeater in central Virginia. (Larry, WB4JBJ)

(Continued on Page 10)

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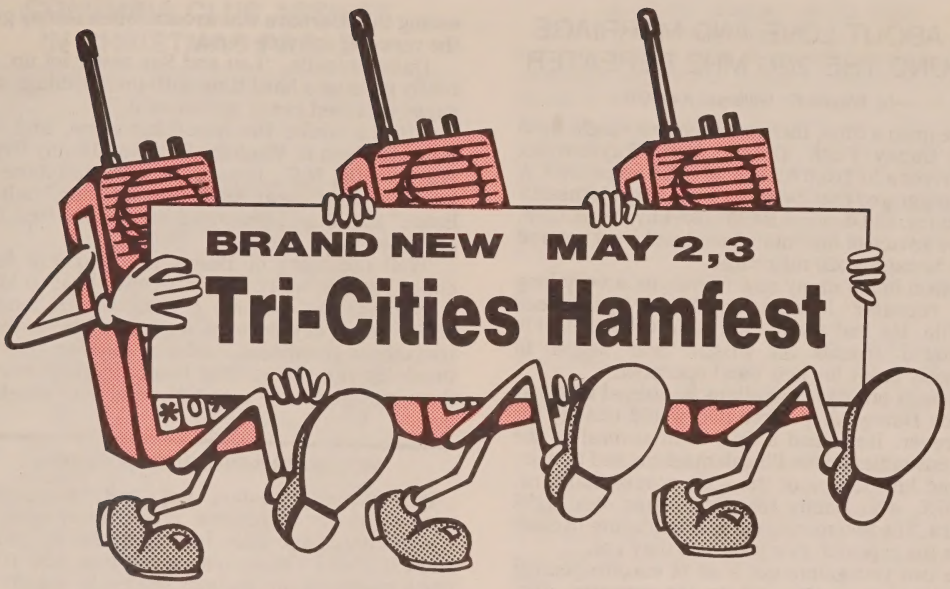

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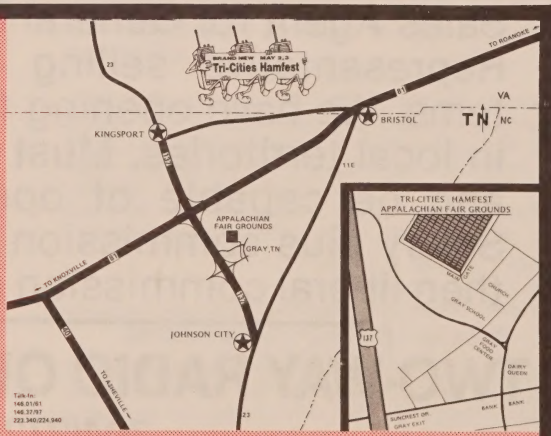

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BRING YOUR FAMILY AND ENJOY THE WEEKEND IN UPPER EAST TENN.

ALL ABOUT LOVE AND MARRIAGE AROUND THE 220 MHZ REPEATER

—by Wayne C. Williams, K4MOB

Once upon a time, there was a young-single Ham named Danny Pugh. Danny, from Waynesville, N.C., drives a lot from his school to his hometown. A friend suggested that he might want to get himself a 220 mhz rig. So Danny, KB4BT, like any young ham, took the advice of his "old" friend and went out and bought himself a 220 mhz radio.

He soon found many new friends on a very long range repeater located on Mt. Pisgah near Asheville. He had many enjoyable QSOs with his new found friends on Pisgah and began to thoroughly enjoy his new band operation.

Suddenly one day, something happened which at the time Danny never dreamed would change his life forever. He joined a QSO with several of the numerous ladies on the Pisgah machine and they introduced him to one of the girls named Barbara. WA4OGX, who Danny found out later was MISS Barbara. The two soon found great pleasure in chatting on the repeater every chance they got.

The two youngsters got a lot of encouragement and kidding from the rest on the repeater. Sue, KA4HPM, Lou, WA4UTY, Jane, WA4TUI and Bud, WB4TTU were some of the main instigators in seeing that Barbara was around when Danny got on the repeater, or vice-versa.

Danny recalls, "Lou and Sue never let up, they really gave us a hard time with their kidding, and I guess we loved every minute of it."

After a while, the friendship grew, and since Barbara lived in Mauldin, S.C., and Danny lived in Waynesville, N.C., the couple, Bud and Jane who lived in Arden (near Asheville) was our "half-way house" and this is where we met for the first time, and later more often.

Well the story of Danny and Barbara hasn't ended yet. But we're happy to report that on March 1, Barbara will become a MRS and no longer a MISS. Some day perhaps we can continue the 220 romance of Danny and Barbara. Anyway, they both thank 220 mhz for getting them together. Perhaps there's more to this new FM band than meets the eye.

HOWS YER BANDWIDTH PODNUH!!

It seems that repeaters, and 2-meter transceivers are very easily overdriven. Have you checked your levels lately. You may be overdeviating and not know it. Folks will say you sound fine, just to keep from hurting your feelings, when in reality you sound lousy. Get someone you know and trust to listen to you on a SIMPLEX frequency.

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COLUMBIA CLUB ASSISTS IN CHRISTMAS PARADE

The Columbia ARC (S.C.) received much good press and an autographed picture from Shawn Weatherly, Miss Universe, 1980. The Photo sent to the club said: "To the hams, Thank you for a beautiful parade, Love Shawn."

QUIET REPEATERS II

—by Jim Fitzgerald, K4OJE

On December 21, as the temperature hovered at 14 degrees, Ed, W4AGS was en route to work at the telephone company when his pickup truck started steaming and he had to stop on I-95 just south of Richmond (Va.) He immediately found five listeners on an otherwise quiet repeater, 34-94. WD4AJY pulled up behind him in a matter of minutes to provide a warm place to wait and Tom, WA4VDA loaded his pickup with antifreeze, lights and tools and drove 8 miles to help Ed make repairs and get him going. The next night, the quiet repeater was busy all night as icy roads caused over 700 accidents. Many were reported over the repeater. Once again, a quiet repeater does not mean no one is listening - they are and can be life savers.

A LOOK AHEAD INTO 1981

(Continued from Page 1)

ran out, only a couple of manufacturers have ventured into 220 mhz. A couple of handhelds, both synthesized are available, but generally rated too expensive for a band in this area that doesn't need a synthesized unit. Another manufacturer has introduced a 12-channel crystal 220 mhz. transceiver, but they are about $100 out of line to successfully draw sales. So we stand at a point where there still isn't the right priced, appropriate equipment available for 220 mhz in the area.

The years of 1979 and 1980 sales of HF equipment bounded. VHF equipment fell off slightly after fantastic sales in 1978. 1981 will along with a sluggish economy be a good year for VHF. The equipment compared to years past is dollar for dollar a fantastic buy. HF equipment continues to go up in price, whereas VHF equipment seems to get cheaper each year.

OUR REPEATER ASSOCIATION

The CVRA like Amateur radio had an enormous growth in 1978 and early 1979. In 1980, we had gains of modest proportion. 1981 will be a fantastic growth year for our organization. Several factors will cause this.

(1) The upsurge of Amateur licensees, which will cause heavy growth on VHF. (2) A dedicated theme for 1981 among Directors is "promote" and "sign up" new members. (3) Two new districts virtually untapped for membership will bring in increases as member percentages grow in those areas. (4) Northern Georgia is almost ready to request membership as a district in CVRA-another surge in growth. (5) A strong desire of Amateurs for "local" news and repeater information (that which this Journal supplies) will also encourage membership.

CONCLUSION

All indicators point to a good year for Amateur Radio, VHF bands, clubs, and repeater memberships. One thing we need to remember with the rapid growth, is to maintain our objective of "quality with quantity", never let our high standards fall, just because the job gets a little heavier with more people looking at our organizations.

—Wayne C. Williams, K4MOB
Editor CVRA Repeater Journal

GREENSBORO HAMFEST IN JUNE

It was confirmed at press time that a group in Greensboro, N.C. will hold a hamfest this year. The event will take place at the National Guard Armory in Greensboro on June 27 and 28. Dealer spaces and flea market will be in an enclosed building. Information may be obtained by contacting Bruce Ward, KA4NZF, 2716 Dumont Dr., Greensboro, N.C. 27403 (919) 299-2845.

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2M10-150P	144 MHz	10	150
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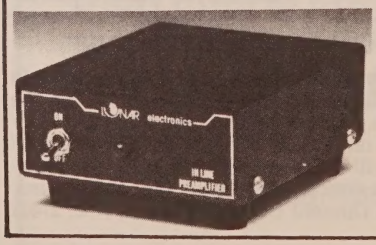

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N.C. STATE ARRL CONVENTION- HAMFEST AT CHARLOTTE MAR. 21-22

The Mecklenburg Amateur Radio Society again this year will host the North Carolina State ARRL Convention in Charlotte, N.C. on March 21st and 22nd. The convention will be highlighted with forums, displays, and a massive flea market and hamfest in the Charlotte Civic Center. The club reported about 8,000 attendance last year, and early reports indicate an even better attendance this year. Display space in the flea market are reportedly being taken fast. For information, write the Mecklenburg Amateur Radio Society, 2425 Park Road, Charlotte, N.C. 28203.

ANTIQUE WIRELESS REGIONAL WINSTON-SALEM MAY 23

The Regional meeting for the Antique Wireless Association will meet at the Ramada Inn, downtown Winston-Salem, N.C. all day Saturday May 23.

AWA members and non-members are welcome to attend. Registration is $4.00. On hand will be a display of antique radios, talks and demonstrations, including a 1923 Aeriola 1 tube receiver. A flea market will also be held.

For further details contact: L.W. Elias, W4DBT, 3919 Poindexter Drive, Winston-Salem, N.C. 27106. (919) 924-2162.

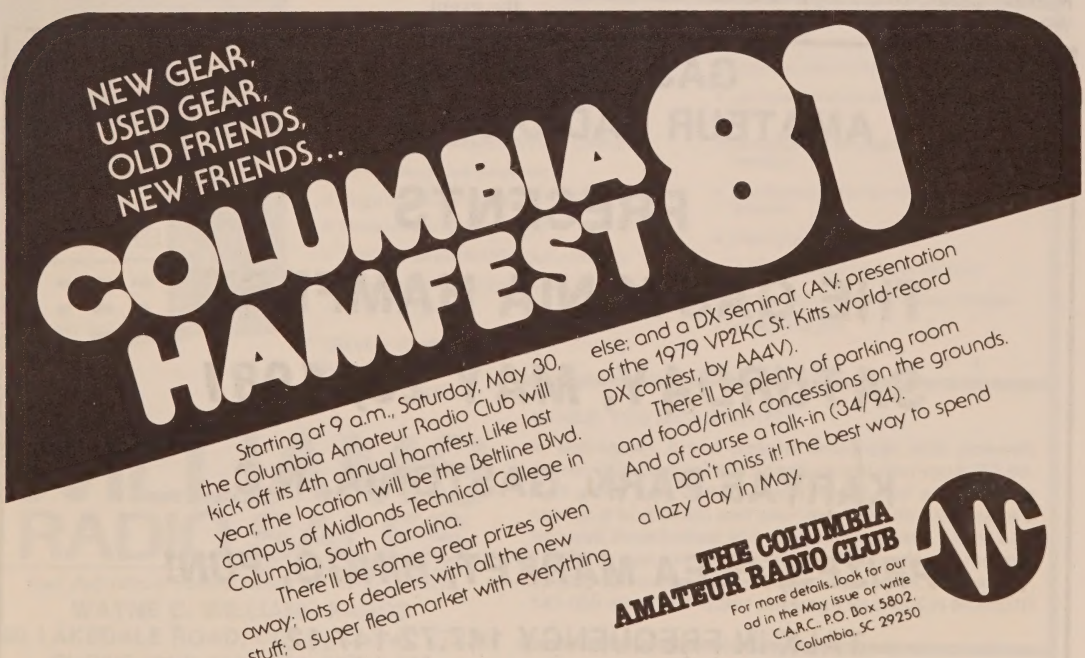
PRESIDENT PRAISES DIRECTORS

—Lane Tarleton, KC4CD

I would like to recognize the new Directors elected in our past election. It appears after meeting and talking with them, and what I have heard about them, we have one of the strongest boards, both technically and with many years of experience in UHF & VHF.

At our meeting in Danville, the moral and attitude toward CVRA-SERA was fantastic. I personally welcome all the new Directors to our organization's leadership.

To the membership — these are the folks that represent you with the CVRA — Southeastern Repeater Association. Their job is to serve and assist you in whatever capacity you may need involving FM and repeaters. Let them know if you need any help. Each Director and Vice-Director for each of our five Districts is listed on the back cover of the Journal. Take time to turn back there now, and familarize yourself with your particular Director and Vice-Director. He is a good man to know!


NEW GEAR,
USED GEAR,
OLD FRIENDS,
NEW FRIENDS...
COLUMBIA HAMFEST 81
Starting at 9 a.m., Saturday, May 30, the Columbia Amateur Radio Club will kick off its 4th annual hamfest. Like last year, the location will be the Beltline Blvd. campus of Midlands Technical College in Columbia, South Carolina.
There'll be some great prizes given away; lots of dealers with all the new stuff; a super flea market with everything else; and a DX seminar (A.V. presentation of the 1979 VP2KC St. Kitts world-record DX contest, by AA4V).
There'll be plenty of parking room and food/drink concessions on the grounds.
And of course a talk-in (34/94).
Don't miss it! The best way to spend a lazy day in May.
THE COLUMBIA AMATEUR RADIO CLUB
For more details, look for our ad in the May issue or write C.A.R.C., P.O. Box 5802, Columbia, SC 29250

CVRA DISTRICT RAMBLINGS

from Page 4)

CROSSVILLE, TN.—The Upper Cumberland DX Association is enjoying a recently installed machine on 04-64. The machine is located in the Homestead area of Crossville on the Cumberland Plateau. (Sonny WB4MTE)

• • •

LYNCHBURG, VA.—A new 2-meter repeater on 975-375 is now on the air. The machine, using 3-element beams for an antenna is located part way up on Tobacco Row Mountain near Lynchburg. W4OSH is trustee. (Mike, KC4AO)

• • •

CHARLOTTE, N.C.—The Mecklenburg ARS reports their new sub-band repeater on 63-23 is now on the air. The machine has been placed on a tall tower near Charlotte. (Lane, KC4CD)

• • •

MT. PISGAH, N.C.—The 222.34-223.94 Pisgah machine reports 220 mhz. activity continues to increase. The WA4BVW machine with coverage in Tennessee and South Carolina has over 50 active users in its coverage area. A net is called at 2100 each Sunday evening with checkins running heavy each week. (Ken, WA4BVW)

• • •

MOUNTAIN CITY, TN.—A new sub band 87-47 repeater is now on the air in Mountain City. The local coverage machine hopes to be sporting an autopatch soon. (Sam, WB4HAP)

SIMPSONVILLE, N.C.—Stewart Banks, WA4PPV has coordinated the sub band frequency of 79-39 with the CVRA for a new repeater to be located in the Simpsonville or Lake Toxaway area. (Ken, WA4BVW)

• • •

DANVILLE, VA.—The possibility of a 220 mhz repeater for this area is again being discussed by Amos, K4WQS. The machine would be located at the 10-70 site on White Oak Mt., ten miles north of Danville. A 220 mhz repeater for **CHARLOTTESVILLE** is also being discussed. (Mike, KC4AO)

FROSTFEST IS FROSTY, FUN AND SUCCESSFUL

The 1981 Hamfest season in this area got off to a good start January 11 as the Richmond Amateur Telecommunications Society (RATS) presented their annual Frostfest.

The event was moved to the Chesterfield County Fairgrounds in a spacious building, compared to cramped quarters in previous years. The temperature Sunday morning as the doors opened was 10-degrees, but at least no snow for the first time in 4 years.

RATS club officials said attendance was almost 2,000, more than double that of previous years for the event.

GASTON COUNTY
AMATEUR RADIO SOCIETY, INC

PRESENTS

THE GASTONIA HAMFEST

SATURDAY, MAY 23, 1981

KARYAE PARK, GASTONIA, N.C.

PRIZES, FLEA MARKET, BINGO, FUN!

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4W SYNTHESIZER RADIO MODULE

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2m/FM TRANSCEIVER

MODEL HT-1200

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SPECIAL PRICE!! 339.00

Add 4% tax N.C. Res.
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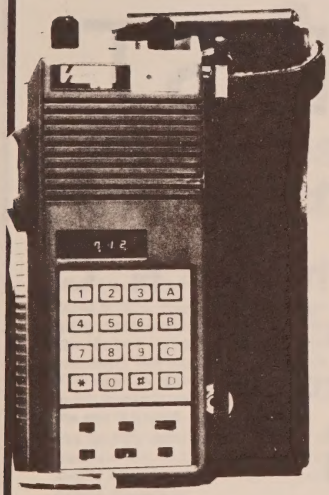
Includes Rubber Duck, Wall Charge and 500 mah Nicads!



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ACCESSORY ITEMS FOR THE HT-1200

Speaker/Mike	$35.95
Leather Case	29.95
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- *4W High/1W Low (True low power, no resistor)*
- *10 Memory Channels with Auto Memory Initialize*
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- *16 Tone Touchtone Generator*
- *Single Button Memory Recall*
- *Heavy Leather Case (Optional)*
- *800 Channels plus MARS (143.0 — 149.995)*
- *Keyboard Entry of All Frequencies, All Digits plus Autotone*
- *Up/Down Bandscan (Stops on signal, resumes scan on sq.)*
- *Up/Down Memory Scan (10 memories)*
- *Up/Down Bandsearch (Stops on signal, locks entry)*
- *Up/Down Memory Search (Locks on first used memory)*
- *Scan Steps in 5 kHz Increments, Keyboard Selected*
- *Preprogrammed ± 600 kHz*
- *Any Split Programmable by the User*
- *Automatic Display or Continuous Readout*
- *Remote Mic Jack*

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WOULD YOU BELIEVE!!!!???

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ASSOCIATION

PROUDLY

PRESENTS...

THE 1981

DURHAMFEST

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2 Day Flea Market

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146.22-146.82
222.34-222.94
3923

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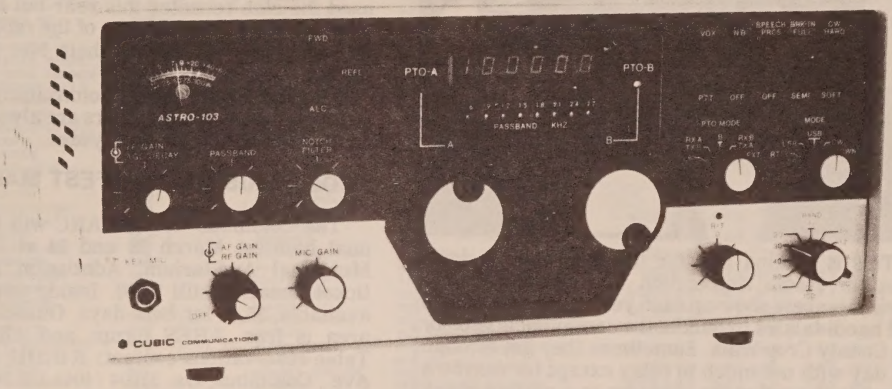
Durham, N.C. 27707

F & M PRESENTS THE NEW ASTRO-103 HF/SSB

ALL BAND COVERAGE!
160 THROUGH 10, INCLUDING WARC
9 BANDS FULLY OPERATING

ASTRO 103 Professional Grade HF/SSB Transceiver



THE NO NONSENSE RIG STRESSING *PERFORMANCE!*

Quality American design and construction by Cubic Corporation. For 29 years Cubic has been a leading diversified American defense and commercial contractor—your assurance of the resources and stability required for future product support.

FEATURES

- √ **All band coverage from 160M through 10M. 9 bands in 12 ranges.**
- √ **DUAL PTO's. Two independent high stability permeability tuned oscillators provide true split band operation (infinite memory!) The digital counter reads the PTO used in receive and then switches to the transmit frequency selected when the mic is keyed.**
- √ **235 WATTS INPUT, PEP AND CW on all frequencies. ALL SOLID STATE with a highly effective ALC circuit for output device protection.**
- √ **IF PASSBAND TUNING not to be confused with ineffective "IF shift." Two 8-pole crystal filters are cascaded to provide a 16-pole −6 to −100dB shape factor of 1.4:1! One filter may be moved through the passband to provide a continuously variable bandwidth with the 16-pole razor sharp cut-off at the low or high end to eliminate close-in interference above or below the operating frequency.**
- √ **CW CRYSTAL FILTER (Optional). A 400Hz 6-pole crystal filter is cascaded with one of the 8-pole filters in the CWN position and may be moved across the base filter with the Passband Tuning Control! This provides truly effective CW filtering for the most discriminating CW operator.**
- √ **VISUAL DISPLAY OF PASSBAND provided by a series of 8 LED's calibrated from .6 to 2.7 kHz. Shows passband in use at a glance!**
- √ **External Receive Antenna Jack. Allows separate transmit and receive antennas.**
- √ **TUNABLE NOTCH FILTER to drastically reduce QRM. When combined with passband tuning provides the ultimate in removing interference.**
- √ **FULL OR SEMI CW BREAK-IN provides full flexibility for the CW professional.**
- √ **RTTY Mode Switch. Automatically selects LSB and switches in CWN filter.**
- √ **CONTINUOUSLY VARIABLE AGC DECAY will allow setting the AGC hold time from 0 to several seconds. "Woodpecker" interference can be drastically reduced by setting the AGC delay to a point near minimum value.**
- √ **EXCEPTIONAL DYNAMICS with AGC range of greater than 100dB and THIRD ORDER INTERCEPT OF +15dBm.**
- √ **SPEECH PROCESSOR with extremely low distortion increases transmitter signal by at least 1/2 "S" unit in effective audio "punch." Compression level is adjusted with the Mic Gain Control.**
- √ **RF and IF GAIN CONTROLS to provide an infinite selection of receiver dynamics in the presence of high level interference.**
- √ **4 FUNCTION METER reads "S" units in receive, and selects forward power (calibrated in watts PEP), reflected power, or ALC level in transmit. NO EXTERNAL VSWR METER REQUIRED!**
- √ **BAND SELECTION using PLL and synthesizer for band selection provides full coverage of 160 meters through 10 meters in 9 ranges.**
- √ **MILITARY QUALITY PC BOARDS of double sided, plated through glass epoxy material. Not the inferior paper base phenolic material seen in imported equipment.**

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Club Aids in Crop Walk

This is nothing new for the Stonewall Jackson Amateur Radio Association in Clarksburg, WV. Their members show up each year with their mobils and handi-talkies to handle the communications for the County Crop Walk. Sometimes they get through the day with not much to relay except for maybe a message to send more checkers to a certain check point or perhaps more water cups but they are there never the less in case something serious arises.

Mel Huff, WD8CYK, president of the S.J.A.R.A. and Harrison County Emergency Coordinator, says that the most serious incident this year was the losing of a cane by a blind walker, it had dropped down a drain and was retreaved by the fire department.

The club has been helping with the walks for the past five years, with an amateur usually placed at the emergency squad, in a City cruiser or County car, in the "Blister Bus", on each of the check points, and with the Crop Walk Coordinator. They used the club repeater this year but have done the work before without the use of the repeater, getting the job done by placing their Net Control on a hilltop.

Although each year the communications seem to go off with ease, the members are always striving to do an even better job next year.

COLUMBUS GA. HAMFEST MARCH 28-29

The Columbus Georgia ARC will hold their annual hamfest March 28 and 29 at the Columbus Municipal Auditorium. Admission is free, with ticket donation still $1.00. Inside swap tables are available, $5.00 for both days. Outside flea market area is free. ARES forum and ARRL hamfest. Table reservations contact: K4RHU, 2701 Peabody Ave., Columbus, Ga. 31904 (404) 322-7001. For more info or tickets: N4ATI, 263 Logan Ave., Ft. Benning, Ga. 31905. Talk-in is on 28-88 for the hamfest.

DISTRIBUTION OF REPEATERS BY FREQUENCY

The By City Index Appears On Following Pages

TWO METERS

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4.53 /5.13	HODGES	SC
	GALAX	VA
4.57 /5.17	BUTNER	NC
	MORGANTON	NC
4.61 /5.21	GASTON	SC
	BUFFALO MT	VA
4.63 /5.23	CHARLOTTE	NC
4.65 /5.25	GREENSBORO	NC
	MT PISGAH	NC
4.67 /5.27	MANASSAS	VA
4.69 /5.29	TRINITY	NC
4.70 /5.30	BRYSON CITY	NC
4.71 /5.31	ROCK HILL	SC
4.73 /5.33	MT AIRY	NC
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4.75 /5.15	CHERRYVILLE	NC
4.75 /5.35	BLAND	VA
	FALLS CHURCH	VA
	FRONT ROYAL	VA
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4.79 /5.39	SAURATOWN MT	NC
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4.83 /5.43	NEWTON	NC
	GALAX	VA
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	LINCOLNTON	NC
	NEWPORT	NC
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	MOUNTAIN CITY	TN
	KINGSTON/LICK KB	WV
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	MEMPHIS	TN
	BLUEFIELD	VA
	BLUEFIELD	WV
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6.01 /6.61	GREENSBORO	NC
	NEW BERN	NC
	GRNVLE/CSRS HD	SC
	MYRTLE BEACH	SC
	CHATTANOOGA	TN
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6.01 /6.61	NASHVILLE	TN
	BRUMLEY MT	VA
	LYNCHBURG	VA
	VIRGINIA BEACH	VA
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	LAURINBURG	NC
	NEW MARKET	VA
6.04 /6.64	HENDERSONVILLE	NC
	RALEIGH	NC
	WINSTON-SALEM	NC
	SUMTER	SC
	CROSSVILLE	TN
	MADISON	TN
	MEMPHIS	TN
	MARION	VA
	RICHMOND	VA
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6.055/6.665	ALEXANDRIA	VA
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	WILLIAMSBURG	VA
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	STATESVILLE	NC
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	MANCHESTER	TN
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6.115/6.715	STERLING	VA
	COAR MTN	WV
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	SALISBURY	NC
	WILMINGTON	NC
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	GRIFTON	NC
	CHARLESTON	SC
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	BRISTOL/HLSTN MT	TN
	NASHVILLE	TN
	CHARLOTTESVILLE	VA
	FOREST	VA
	EAST RIVER MTN*	WV
	HUNTINGTON	WV
	MORGANTOWN	WV
	WHEELING	WV
6.175/6.775	ELIZABETHTOWN	NC
6.19 /6.79	LEVEL CROSS/GBO	NC
	ANDSN/SASFRAS MT	SC
	CHARLESTON	SC
	SWAINSBORO(GA)	SC
	CHATTANOOGA	TN
	JOHNSON CTY	TN
6.19 /7.51	MEMPHIS	TN
6.19 /6.79	NASHVILLE	TN
	CHESAPEAKE	VA
	FAIRFAX	VA
	OAK HILL	WV
6.205/6.805	GASTONIA	NC
	WASHINGTON	NC
6.22 /6.82	DURHAM	NC
	ROARING GAP	NC
	WILMINGTON	NC
	GRNVLE/PARIS MT	SC
	LYONS(GA)	SC
	LAKE CITY	TN
	MEMPHIS	TN
	WINCHESTER	TN
	COVINGTON	VA
	WINCHESTER	VA
	CHARLESTON	WV
	CLARKSBURG	WV
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	WADESBORO	NC
	DANTE	VA
	HAZEL MT	VA
6.25 /6.85	GOLDSBORO	NC
	HICKORY/BRT. MT	NC
	REIDSVILLE	NC
	FLORENCE	SC
	LAURENS	SC
	SUMMERVILLE	SC
	ALCOA	TN
	COVE MTN	TN
	MEMPHIS	TN
	NASHVILLE	TN
	PORTSMOUTH	VA
	BKLY/FLAT TOP MT	WV
6.25 /7.85	BUCKHANNON	WV
6.265/6.865	HIGH POINT	NC

6.28 /6.88	RALEIGH	NC
	SHELBY	NC
	COLUMBIA	SC
	SAVANNAH(GA)	SC
	BRISTOL	TN
	MEMPHIS	TN
	NASHVILLE	TN
	OAK RIDGE	TN
	BRISTOL	VA
	RICHMOND	VA
	SALEM	VA
	CHARLESTON	WV
6.31 /6.91	AHOSKIE	NC
	ASHEVILLE	NC
	FAYETTEVILLE	NC
	LEXINGTON	NC
	WHITE HALL	SC
	POPLAR BLUFF(MO)	TN
	SAVANNAH	TN
	SHORT MT.	TN
	FARMVILLE	VA
	JONESVILLE	VA
	RIPPLE MEADE	VA
	TYSONS CORNER	VA
	COTTAGEVILLE	WV
	FAIRMONT	WV
	MCMECHEN	WV
6.325/6.925	CHARLOTTESVILLE	VA
	DANVILLE(DCC)	VA
6.34 /6.94	BURGAW	NC
	CHARLOTTE	NC
	DURHAM	NC
	MANTEO	NC
	CHARLESTON	SC
	COLUMBIA	SC
	GREER	SC
	KNOXVILLE	TN
	MEMPHIS	TN
	NASHVILLE	TN
	HAMPTON	VA
	RICHMOND	VA
	ROANOKE	VA
	BECKLEY	WV
	NEW MARTINSVLLE	WV
	RICHWOOD	WV
	WEIRTON	WV
6.355/6.955	ROCKINGHAM	NC
6.37 /6.97	MT AIRY	NC
	SMITHFIELD	NC
	ANDERSON	SC
	FLORENCE	SC
	SAVANNAH(GA)	SC
	ALTAMONT	TN
	KNGSPT/BAYS MT	TN
	MEDINA	TN
	MANASSAS	VA
	VIRGINIA BEACH	VA
	LOGAN	WV
	PARKERSBURG	WV
6.385/6.985	ALBEMARLE	NC
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	JACKSONVILLE	NC
	MARION	SC
	PICKENS	SC
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6.40 /7.00	MEMPHIS	TN
	SUFFOLK	VA
	ST ALBANS	WV
6.415/7.015	DURHAM	NC
	BLUEFIELD	VA
	BLUEFIELD	WV
6.43 /7.03	ERWIN	NC
	ROCK HILL	SC
6.445/7.045	HOPE MILLS	NC
	ROBBINSVILLE	NC
6.46 /7.06	CHARLOTTE	NC
	ELIZABETH CITY	NC
	MEMPHIS	TN
	SOUTH BOSTON	VA
	PRINCETON	WV
6.475/7.075	BURLINGTON	NC
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6.655/6.055	BROWNSVILLE	TN
	UNION CITY	TN
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6.745/6.145	NEWBERN	TN
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7.30 /7.90	MONROE	NC
7.60 /7.00	HIGH POINT	NC
	BRISTOL	TN
	CHATTANOOGA	TN
	CLARKSVILLE	TN
	TERRA ALTA	WV
7.615/7.Q15	SUMTER	SC
	NASHVILLE	TN
	FREDRICKSBURG	VA
7.63 /7.03	GREENSBORO	NC
	ROANOKE RAPIDS	NC
7.63 /6.03	MYRTLE BEACH, N	SC
7.63 /7.03	FAYETTEVILLE	TN
	HENDERSONVILLE	TN
	MEMPHIS	TN
	MORRISTOWN	TN
	SPRINGFIELD	TN
	WAYNESBORO	VA
	MULLENS	WV
7.645/7.045	ELLIS KNOB	VA
	VIRGINIA BEACH	VA
	VIRGINIA BEACH	VA
7.66 /7.06	MACO	NC
	SUMTER/SHAW	SC
	GREENEVILLE	TN
	SHELBYVILLE	TN
	RICHMOND	VA
7.67 /7.09	MEMPHIS	TN
7.675/7.075	GREENVILLE	SC
	KNOXVILLE	TN
	CRIMORA	VA
7.69 /7.09	GREENVL/ESTN NC	NC
	HAYESVILLE	NC
	ORANGEBURG	SC
	SPARTANBURG	SC
	SPARTA	TN
	BRIARPATCH MT	VA
7.705/7.105	MONROE	NC
	JOHNSONS MT	VA
	BRIDGEPORT	WV
7.72 /7.12	GAST/SPCR MT	NC
	ROCKY MOUNT	NC
	MYRTLE BEACH	SC
	N. AUGUSTA	SC
	COLUMBIA	TN
	MEMPHIS	TN
	OAK RIDGE	TN
	ALEXANDRIA	VA
	CULPEPPER	VA
	BRIDGEPORT	WV
	DUNBAR	WV
7.735/7.135	CHIMNEY ROCK	NC
	CHERAW	SC
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	RALEIGH	NC
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	DORCHESTER	SC
	CLEVELAND	TN
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	DUBLIN	VA
	PETERSBURG	VA
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	GREENVILLE	NC
	LITTLE MT	SC
	COOKEVILLE	TN
	JACKSON	TN
	HIGH KNOB	VA
	MCLEAN	VA
7.825/7.225	HILLSBOROUGH	NC
	MORRISTOWN	TN
7.84 /7.24	EDEN	NC
	FOREST CITY	NC
	FRANKLIN	NC
	PINE BLUFF	NC
	COLUMBIA	SC
	GALLITIN	TN
	MEMPHIS	TN
	PETERSBURG	VA
7.84 /7.24	WOODBRIDGE	VA
7.855/7.255	ASHEBORO	NC
	CHRISTIANSBURG	VA
	SHENANDOAH	VA
	MARTINSBURG	WV
7.87 /7.27	BENSON	NC
	GASTONIA	NC
	WAYNESVILLE	NC
	CHARLESTON	SC
	LONG MT	SC
	JOHNSON CTY	TN
	MEMPHIS	TN
	NASHVILLE	TN
	GUM SPRINGS	VA
	SCOTT DEPOT	WV
7.885/7.285	LYMAN	SC
	MARTINSVILLE	VA
7.90 /7.30	GASTONIA	NC
	JACKSONVILLE	NC
	SYLVA	NC
	TUCKASEGEE	NC
	KNOXVILLE	TN
	MEMPHIS	TN
	NASHVILLE	TN
	BERRYVILLE	VA
	CLIFTON FORGE	VA
	FRANKLIN	VA
	GRUNDY	VA
	HUNTINGTON	WV
	PENNSBORO	WV
7.915/7.315	UNION CROSS	NC
	ALEXANDRIA	VA
7.93 /7.33	FAYETTEVILLE	NC
	LENOIR	NC
	COLUMBIA	SC
	TOCCOA(GA)	SC
	CROSSVILLE	TN
	COLE MTN	VA
	KLMNRK/SALUDA	VA
7.945/7.345	SHELBY	NC
	NASHVILLE	TN
	GATE CITY	VA
	FRANKLIN	WV
7.95 /7.35	DANVILLE	VA
7.96 /7.36	BOONE	NC
	FRANKLIN	NC
	GREENVILLE	NC
	LUMBERTON	NC
	COLUMBIA	SC
	MEMPHIS	TN
	NASHVILLE	TN
	PARIS	TN
	PARKERSBURG	WV
7.975/7.375	BURNSVILLE	NC
	NASHVILLE	TN
	LYNCHBURG	VA
	STAUNTON	VA
7.99 /7.39	CHARLOTTE	NC
	EDEN/STONEVILLE	NC
	EDENTON	NC
	DAYTON/RHEA CTY	TN
	JONESBORO	TN
	MEMPHIS	TN
	NASHVILLE	TN
	PETERSBURG	VA
8.01 /3.99	MEMPHIS (MARS)	TN

WEST VIRGINIA REPEATERS

TWO METERS

ALDERSON	WR8AKZ	146.13	146.73	D	
BECKLEY	WR8ACO	146.34	146.94	N	
BKLY/FLAT TOP MT	WR8AKZ	146.25	146.85	D	A
BLUEFIELD	W8MOP	144.89	145.49		A
BLUEFIELD	WD8OGY	146.415	147.015		PA
BRIDGEPORT	WR8ALC	147.705	147.105	D	EA
BRIDGEPORT	K8VNQ	147.72	147.12		EA
BUCKHANNON	WD8LWI	145.93	147.93	D	
BUCKHANNON	K8WYH	146.25	147.85	N	
CHARLESTON	WR8AER	146.22	146.82	N	
CHARLESTON	WB8CQV	146.28	146.88	N	
CLARKSBURG	WB8ZVS	146.22	146.82	D	A
COAR MTN	WB8KAD	146.115	146.715	N	
COTTAGEVILLE	WR8AKV	146.31	146.91	N	
DUNBAR	K8VKI	147.72	147.12		
EAST RIVER MTN*	WR4AXS	146.16	146.76	N	
ELKINS	WR8AOH	146.04	146.64	N	
FAIRMONT	W8JM	146.31	146.91	D	
FRANKLIN	W3RUA	147.945	147.345		
HUNTINGTON	WB8EZR	146.04	146.64	N	
HUNTINGTON	WR8AGH	146.16	146.76	N	
HUNTINGTON	KA8BKX	147.90	147.30	N	
KINGSTON/LICK KB	W8FG	144.87	145.47	N	
LEON	WB8NMT	147.78	147.18	N	
LOGAN	WR8ADD	146.37	146.97	N	
MARTINSBURG	WB8VUZ	147.855	147.255	N	
MCMECHEN	W8WUX	146.31	146.91	N	
MORGANTOWN	K8LG	144.83	145.43		
MORGANTOWN	WB8YZT	146.085	147.955	N	
MORGANTOWN	W8CUL	146.16	146.76		
MULLENS	WR8AKX	147.63	147.03	D	
NEW MARTINSVLLE	WR8ABY	146.34	146.94	N	
OAK HILL	KA8EMX	146.19	146.79	D	A
PARKERSBURG	WR8ACJ	146.37	146.97	D	PA
PARKERSBURG	WR8ACJ	147.96	147.36	D	
PARSONS	N8ER	144.73	145.33		
PENNSBORO	WA8CND	147.90	147.30	N	
PRINCETON	WB8NRK	146.46	147.06		A
RAVENSWOOD	WA8USO	146.07	146.67		
RICHWOOD	K8VKB	146.34	146.94		
SCOTT DEPOT	K8SLI	147.87	147.27	N	
SPENCER	WB2HVN	146.01	146.01	N	
ST ALBANS	WB8GDY	146.40	147.00		
TERRA ALTA	WB8PHU	147.60	147.00		
WEIRTON	WR8AQA	146.34	146.94	D	
WELCH	WB8SXZ	144.85	145.45		
WHEELING	W8JDH	146.16	146.76	D	

NORTH CAROLINA REPEATERS

TWO METERS

AHOSKIE	WR4AFB	146.31	146.91	N	PA
AHOSKIE	WB4YNF	146.49	147.49	N	AT
ALBEMARLE	WR4BBX	146.385	146.985		
ANDERSON MTN	WD4LCF	144.85	145.45		
ASHEBORO	WD4AIB	147.855	147.255	D	A
ASHEVILLE	WA4QCO	146.235	146.835		
ASHEVILLE	NC4N	146.31	146.91		A
ASHVL/MT PISGAH	WA4BVW	146.16	146.76		
BENSON	WR4ARL	147.87	147.27	N	PA
BOONE	WB4DYD	147.96	147.36	D	PA
BRYSON CITY	K4BBF	144.70	145.30	N	P
BURGAW	K4LZY	146.34	146.94		
BURLINGTON	WR4AKY	146.07	146.67	N	
BURLINGTON	W4VGZ	146.475	147.075		EA
BURNSVILLE	WA4LLR	147.975	147.375	N	
BUTNER	WA4IZG	144.57	145.17	N	P
CHARLOTTE	WR4AEU	144.63	145.23	N	
CHARLOTTE	WB4HTR	144.75	145.35	N	
CHARLOTTE	WR4AEU	146.34	146.94	N	A
CHARLOTTE	WR4ALO	146.46	147.06	N	A
CHARLOTTE	WB4KOH	147.99	147.39		PA
CHERRYVILLE	WB4GXY	144.75	145.15	N	
CHIMNEY ROCK	WA4KNI	147.735	147.135	N	P
CONCORD/KANNAP.	K4CEB	146.055	146.655		A
DUNN	WB4FXM	146.10	146.70	D	
DURHAM	WA4WTX	146.22	146.82	D	
DURHAM	WA4BFT	146.34	146.94	D	A
DURHAM	W4PVI	146.415	147.015	N	L
EDEN	WA4ACP	147.84	147.24	N	
EDEN/STONEVILLE	WD4DIP	147.99	147.39		
EDENTON	WA4JOK	147.99	147.39	N	C
ELIZABETH CITY	WA4VTX	146.46	147.06	N	A
ELIZABETHTOWN	W4DCD	146.175	146.775	N	P
ERWIN	WR4ALY	146.43	147.03	N	
FAYETTEVILLE	WR4ANN	146.31	146.91		A
FAYETTEVILLE	W4LPL	147.93	147.33		
FOREST CITY	W4TMT	146.07	146.67	N	A
FOREST CITY	WA4BKU	147.84	147.24	N	
FRANKLIN	WB4YAO	147.84	147.24	D	
FRANKLIN	N4AC	147.96	147.36	N	
GAST/SPCR MT	W4REW	147.72	147.12		A
GASTONIA	K4ZFD	146.205	146.805	N	L
GASTONIA	WD4KGM	147.87	147.27	N	
GASTONIA	WR4	147.90	147.30	N	P
GOLDSBORO	K4CYP	146.25	146.85		A
GREENSBORO	KZ4O	144.65	145.25	N	C
GREENSBORO	K4SNI	146.01	146.61		A
GREENSBORO	WR4AOD	146.16	146.76		
GREENSBORO	WD4IPZ	147.63	147.03		A
GREENSBORO	WR4ANL	147.81	147.21	N	
GREENVILLE	WD4JPQ	147.81	147.21	N	P
GREENVILLE	W4AMC	147.96	147.36	N	
GREENVL/ESTN NC	W4GDF	147.69	147.09	D	
GRIFTON	W4NBR	146.085	146.685		
GRIFTON	WR4ABP	146.16	146.76		O
HAYESVILLE	WD4KTG	147.69	147.09	D	
HENDERSONVILLE	WB4YAO	146.025	146.625	D	P
HENDERSONVILLE	WB4YAO	146.04	146.64		L
HICKORY/BRT. MT	WR4ACM	146.25	146.85	N	
HIGH POINT	N4XO	144.51	145.11	N	P
HIGH POINT	WA4ZXA	146.265	146.865	D	PA
HIGH POINT	K4AZA	146.40	147.00		LPA
HIGH POINT	K4AZA	147.60	147.00		LPA
HILLSBOROUGH	WA4WTX	147.825	147.225		A
HOPE MILLS	WB4TRW	146.445	147.045		
JACKSONVILLE	WD4FVO	146.40	147.00		
JACKSONVILLE	WR4ATW	147.90	147.30	D	
LAKE TOXAWAY	WR4AGH	147.795	147.195		
LAURINBURG	WR4AOX	146.025	146.625	D	
LENOIR	WR4ARG	147.93	147.33		
LEVEL CROSS/GBO	K4VUW	146.19	146.79		
LEXINGTON	WD4NTE	144.81	145.41	N	P
LEXINGTON	K4IZM	146.31	146.91	D	PA
LILLINGTON	WA4FKI	144.87	145.47	D	
LINCOLNTON	WD4PLY	144.85	145.45	D	
LUMBERTON	WR4BDQ	147.96	147.36	N	A
MACO	WA4LED	147.66	147.06		
MANTEO	W4PCN	146.34	146.94		PA
MONROE	K4BGU	147.30	147.90	N	
MONROE	WR4BBN	147.705	147.105		A
MORGANTON	WB4PML	144.57	145.17	D	LP
MORGANTON	K4RP	147.75	147.15	D	
MT AIRY	WD4MDP	144.73	145.33		
MT AIRY	WB4UJH	146.37	146.97		EA
MT AIRY	WA4CQK	147.78	147.18	N	
MT PISGAH	WA4COS	144.65	145.25	N	P
MYRTLE BEACH	WA5MDD	146.07	146.67	N	
N. WILKESBORO	K4ITL	144.77	145.37		
NEW BERN	WD4JMS	146.01	146.61		PA
NEWPORT	K4GRW	144.85	145.45		A
NEWTON	N4AWV	144.83	145.43	N	P
PINE BLUFF	WR4BAR	147.84	147.24	N	
RALEIGH (CITY)	N4BEA	144.89	145.49		A
RALEIGH	WR4ACF	146.04	146.64	D	
RALEIGH	K4BWC	146.13	146.73		A
RALEIGH	K4ITL	146.28	146.88		
RALEIGH	K4ITL	147.75	147.15		PA
REIDSVILLE	K4YFT	146.25	146.85	N	
ROANOKE RAPIDS	K4PUV	147.63	147.03		
ROARING GAP	WB4PZA	146.22	146.82		
ROBBINSVILLE	WB4ZQB	146.445	147.045		
ROCKINGHAM	WA4ULA	146.355	146.955	D	
ROCKY MOUNT	WD4HIG	147.72	147.12		A
SALISBURY	W4EXU	146.13	146.73		
SANFORD	WB4EJJ	147.78	147.18	N	A
SAURATOWN MT	WB4SNA	144.79	145.39	N	CL
SHELBY	KB4AF	146.28	146.88	D	
SHELBY	KB4AF	147.945	147.345	D	A
SIMPSONVILLE	WA4PPV	144.79	145.39	N	P
SMITHFIELD	WR4BBO	146.37	146.97		A
SPRING LAKE	WR4BCA	146.115	146.715	N	
STATESVILLE	AI4O	146.085	146.685		PA
SYLVA	KA4V	147.90	147.30	N	
TRINITY	WD4KUN	144.69	145.29	N	P
TUCKASEGEE	W8OMV	147.90	147.30	N	
UNION CROSS	WA4RBW	147.915	147.315		
WADESBORO	W4USH	146.235	146.835	N	
WASHINGTON	WB4GMI	146.205	146.805	N	
WAYNESVILLE	N4SM	147.87	147.27	D	PA
WILLIAMSTON	WA4TKJ	144.81	145.41	D	
WILMINGTON	WR4AVF	146.13	146.73		
WILMINGTON	WR4AHL	146.22	146.82		
WINSTON-SALEM	WA4GIC	146.04	146.64		A

CVRA REPEATER SYMBOLS

Unmarked in First Code column-Full CVRA Members

N	NON Member CVRA	RB	Remote Base System
D	Delinquent Member	T	Tone Access Repeater
M	T-MARC Repeater	L	Linked Repeater
A	Open Autopatch	R	Radioteletype Rptr.
PA	Private Autopatch	V	Television (SS or ATV)
EA	Emerg. Autopatch	P	Proposed Repeater
		C	Under Construction
		O	Off Air Temporarily

10-METERS

DURHAM	W4PVI	29.60	29.60	N	RBL
NEWPORT	K4GRW	29.56	29.66	D	P

SIX METERS

CARY	WR4AVP	52.35	53.35	N	
HENDERSONVILLE	WB4YAO	52.01	53.01		
HENDERSONVILLE	WB4YAO	52.525	52.525		RB
HICKORY	WR4ACM	52.47	53.47	N	
HIGH POINT	K4AZA	52.15	53.15		L
HILLSBOROUGH	WA4WTX	52.01	53.01		
NEWPORT	K4GRW	52.01	53.01	D	P
RALEIGH	WR4AOE	52.05	53.05	D	
RALEIGH	WA4PEN	52.25	53.25	D	C

220 MHZ

ASHVL/MT PISGAH	WR4AEV	222.34	223.94		
CHARLOTTE	WR4AEU	222.36	223.96	N	P
CHERRYVILLE	WB4UDS	223.20	224.80	N	
FAYETTEVILLE	W4EHF	222.42	224.02		
GREENSBORO	KZ4O	223.22	224.82	D	RT
HICKORY	WR4ACM	222.42	224.02	N	
HIGH POINT	K4AZA	222.32	223.92		LPA
HILLSBOROUGH	WA4WTX	222.34	223.94		
LOCUST	WR4BBA	222.40	224.00		
MORGANTON	WB4PML	223.36	224.96	D	
RALEIGH	WA4PEN	223.04	224.64	D	
SALISBURY	W4EXU	223.16	224.76		
SAURATOWN MT	W4RXG	223.28	224.88		
STATESVILLE	WA4WRS	222.70	224.30	N	
SYLVA	KA4V	223.34	224.94	N	
TRYON	WB4BYH	222.86	224.46	N	P
WINSTON-SALEM	WB4UGW	222.44	222.04	N	P
WINSTON-SALEM	WA4YHH	223.04	224.64	N	P
WINSTON-SALEM	WA4GIC	223.10	224.70	D	R

450 MHZ

ASHVL/MT PISGAH	WR4ALE	449.90	444.90	N	
CHARLOTTE	WR4AEU	449.60	444.60	N	P
CHARLOTTE	WR4ALO	449.85	444.85	N	
DURHAM	WR4	449.00	444.00	N	P
HIGH POINT	K4AZA	447.90	442.90		L
HILLSBOROUGH	WA4WTX	449.10	444.10		PA
HILLSBOROUGH	WB4DBB	449.35	444.35	N	
SALISBURY	W4EXU	449.70	444.70		P
SAURATOWN MT	WR4AOW	448.00	443.00		C

SOUTH CAROLINA REPEATERS

TWO METERS

ANDERSON	WR4AIO	146.37	146.97	D	PA
ANDSN/SASFRAS MT	WR4AIO	146.19	146.79	D	
CAROWINDS	WR4ABK	147.78	147.18	D	
CHARLESTON	WR4	146.06	146.66	N	A
CHARLESTON	K4ILT	146.16	146.76	D	A
CHARLESTON	WR4AUV	146.19	146.79	N	
CHARLESTON	N4SC	146.34	146.94	N	T
CHARLESTON	WR4BCP	147.87	147.27		A
CHERAW	WD4HEH	147.735	147.135		
COLUMBIA	WB4URY	146.07	146.67		
COLUMBIA	WR4AYE	146.16	146.76		
COLUMBIA	K4AVU	146.28	146.88	N	
COLUMBIA	K4ICL	146.34	146.94		
COLUMBIA	WR4AYE	147.84	147.24	D	
COLUMBIA	WB4VLY	147.93	147.33	D	
COLUMBIA	K4ICL	147.96	147.36		
DILLON	KA4BGA	146.145	146.745	N	
DORCHESTER	W4NAT	147.78	147.18	N	
FLORENCE	W4ULH	146.25	146.85	D	
FLORENCE	WA4ISM	146.37	146.97	D	PA
GASTON	WB4NEP	144.61	145.21	D	A
GREENVILLE	W4AZT	146.10	146.70		A
GREENVILLE	WR4	147.675	147.075	N	PA
GREENWOOD	WR4AUE	147.765	147.165	D	PA
GREER	W4IQQ	146.34	146.94	N	
GRNVLE/CSRS HD	W4NYK	146.01	146.61		EA
GRNVLE/PARIS MT	W4NYK	146.22	146.82		PA
HODGES	KB4YF	144.53	145.13	N	C
LANCASTER	W4PAX	146.10	146.70		
LAURENS	WA4UZA	146.25	146.85	D	A
LEXINGTON	WR4AGK	147.255	146.835	N	
LITTLE MT	K4AVU	147.81	147.21	D	
LONG MT	WA4JRJ	147.87	147.27	D	
LYMAN	KS4I	147.885	147.285	D	
LYONS(GA)	K4HAO	146.22	146.82	D	
MARION	W4YLT	146.40	147.00		
MONCKS CORNER	WA4DDK	147.75	147.15	N	A
MYRTLE BEACH	WA4KGN	146.01	146.61	N	
MYRTLE BEACH	WR4	147.72	147.12	N	
MYRTLE BEACH, N	WA4JYR	147.63	146.03		
N. AUGUSTA	K4FKJ	146.13	146.73		
N. AUGUSTA	WR4ALS	147.72	147.12	N	
NORTHWEST SECT.	W4GZL	144.51	145.11		P
ORANGEBURG	WR4AQY	147.69	147.09	N	A
PICKENS	WR4ADP	146.40	147.00		
ROCK HILL	WR4	144.71	145.31	N	
ROCK HILL	WC4ABD	146.43	147.03	D	PA
SAVANNAH(GA)	W4HBB	146.28	146.88	D	
SAVANNAH(GA)	W4HBB	146.37	146.97	D	A
SPARTANBURG	K4JLA	147.69	147.09	N	PA
SUMMERVILLE	WR4	146.25	146.85	N	
SUMTER	WR4AOI	146.04	146.64		
SUMTER	WA4UMU	147.615	147.015		PA
SUMTER/SHAW	W4VFR	147.66	147.06	N	
SWAINSBORO(GA)	K4VYX	146.19	146.79	D	
TOCCOA(GA)	KA4DIP	147.93	147.33		
WHITE HALL	WR4AQL	146.31	146.91	N	

TEN METERS

ANDERSON	N4JK	29.53	29.63	N

SIX METERS

COLUMBIA	WR4	52.05	53.05	N

220 MHZ

COLUMBIA	WB4URY	222.30	223.90	
SASSAFRAS MTN	KJ4X	222.46	224.06	

450 MHZ

CHARLESTON	N4SC	449.10	444.509	N	T
ROCK HILL	KA4RFA	442.25	447.25		
SUMMERVILLE	WR4	449.00	444.00	N	P

TENNESSEE REPEATERS

TWO METERS

ALCOA	WR4APM	146.25	146.85	N	
ALTAMONT	WR4AWN	146.37	146.97	N	
BRISTOL	K4ILW	146.07	146.67	D	A
BRISTOL	W4SZP	146.28	146.88	D	A
BRISTOL	WR4AXQ	147.60	147.00	N	
BRISTOL/HLSTN MT	WR4ADO	146.16	146.76	D	EA
BROWNSVILLE	WR4ASI	146.655	146.055	N	
CHATTANOOGA	KB4TZ	144.79	145.39	D	
CHATTANOOGA	K4CMY	146.01	146.61	D	

TENNESSEE REPEATERS

(Continued from Page 17)

CHATTANOOGA	W4DSK	146.19	146.79	D	A
CHATTANOOGA	WA4ZOK	147.60	147.00		PA
CLARKSVILLE	WR4A00	147.60	147.00	N	
CLEVELAND	WR4AQV	147.78	147.18	N	
COLUMBIA	WR4AIX	147.72	147.12	N	
COOKEVILLE	WR4ANW	146.07	146.67	N	
COOKEVILLE	WB4QSJ	147.81	147.21	N	
COVE MTN	WA4KJH	146.25	146.85	N	PA
CROSSVILLE	WR4AKQ	146.04	146.64	N	
CROSSVILLE	WR4BEL	147.93	147.33	N	
DAYTON/RHEA CTY	N4OU	147.99	147.39	D	
FAYETTEVILLE	WR4BAQ	147.63	147.03	N	
GALLITIN	WR4BCX	147.84	147.24	N	
GREENEVILLE	W4ANB	146.10	146.70	D	
GREENEVILLE	WA4LYF	147.66	147.06	D	
HENDERSONVILLE	W4KKO	144.89	145.49	N	
HENDERSONVILLE	WR4BCX	147.63	147.03	N	
JACKSON	WR4AQN	147.81	147.21	N	
JOHNSON CTY	WB4IKB	146.19	146.79		
JOHNSON CTY	WA4DIU	147.87	147.27		A
JONESBORO	WB4SQC	147.99	147.39		PA
KNGSPT/BAYS MT	W4TRC	146.37	146.97	D	A
KNOXVILLE	WB4JSD	144.51	145.11		R
KNOXVILLE	WB4IOB	146.13	146.73		
KNOXVILLE	K4HXD	146.34	146.94	D	
KNOXVILLE	WA4TEM	146.40	147.54		A
KNOXVILLE	K4HXD	147.675	147.075	D	A
KNOXVILLE	W4BBB	147.90	147.30		
LAFOLLETTE	W4TZG	146.07	146.67		
LAKE CITY	WB4OAH	146.22	146.82	N	
LEBANON	WR4BBM	146.13	146.73	N	
MADISON	WR4AKN	146.04	146.64	N	
MANCHESTER	WR4ACI	146.10	146.70		A
MEDINA	K4BEZ	146.37	146.97	N	
MEMPHIS (MARS)	AAA4TN	148.01	143.99	D	
MEMPHIS	WR4AZK	144.89	145.49	N	
MEMPHIS	WR4AHK	146.01	147.51	N	
MEMPHIS	W4GYS	146.04	146.64	N	
MEMPHIS	WR4A0G	146.10	146.70	N	R
MEMPHIS	WR4AGR	146.13	146.73	N	
MEMPHIS	WR4ABS	146.19	147.51	N	
MEMPHIS	WR4AHO	146.22	146.82	N	
MEMPHIS	WR4AZK	146.25	146.85	N	
MEMPHIS	WA4ETE	146.28	146.88	N	
MEMPHIS	K4BN	146.34	146.94	N	
MEMPHIS	K4FZJ	146.40	147.00	N	
MEMPHIS	WR4AXF	146.46	147.06	N	
MEMPHIS	WR4BCU	147.63	147.03	N	
MEMPHIS	WR4AWT	147.67	147.09	N	
MEMPHIS	WB4DAZ	147.72	147.12	N	
MEMPHIS	WR5AII	147.75	147.15	N	
MEMPHIS	WR4AZK	147.78	147.17	N	
MEMPHIS	WD4APK	147.84	147.24	N	
MEMPHIS	WR4AZC	147.87	147.27	N	
MEMPHIS	WR4ASF	147.90	147.30	N	
MEMPHIS	WR4ATA	147.96	147.36	N	
MEMPHIS	WR4ASR	147.99	147.39	N	
MORRISTOWN	WB4OAH	147.63	147.03	N	
MORRISTOWN	WB4OAH	147.825	147.225	N	
MOUNTAIN CITY	WD4OMO	144.87	145.47	N	
NASHVILLE	WR4AWV	146.01	146.61	N	
NASHVILLE	WR4AKN	146.07	146.67	N	
NASHVILLE	WR4ACS	146.16	146.76	N	
NASHVILLE	WR4AFA	146.19	146.79	N	
NASHVILLE	WR4ABV	146.25	146.85	N	
NASHVILLE	WR4ACY	146.28	146.88	N	
NASHVILLE	WR4AGX	146.34	146.94	N	
NASHVILLE	AI4P	147.615	147.015	N	
NASHVILLE	WR4AUX	147.75	147.15	N	
NASHVILLE	WB4HFS	147.78	147.18	N	
NASHVILLE	WA4YQC	147.87	147.27	N	
NASHVILLE	WB4ZSA	147.90	147.30	N	
NASHVILLE	WR4BBT	147.945	147.345	N	
NASHVILLE	WR4AKN	147.96	147.36	N	
NASHVILLE	WR4	147.975	147.375	N	
NASHVILLE	WB4DLQ	147.99	147.39	N	
NEWBERN	AA4HF	146.745	146.145	N	
OAK RIDGE	WR4ADQ	144.85	145.45	N	
OAK RIDGE	W4SKH	146.28	146.88	D	A
OAK RIDGE	K4EAJ	147.72	147.12		
OAK RIDGE	K4EAJ	147.75	147.15		R
PARIS	WR4AYM	147.96	147.36	N	
POPLAR BLUFF(MO)	WOBIU	146.31	146.91	D	
PULASKI	W4JVO	146.715	146.115	N	
SAVANNAH	WA4HGN	146.31	146.91	N	
SHELBYVILLE	WR4AQM	147.66	147.06	N	
SHORT MT.	WR4AZF	146.31	146.91	N	
SPARTA	W4BSA	147.69	147.09		
SPRINGFIELD	WR4AGH	147.63	147.03	N	
UNION CITY	WR4AUQ	146.10	146.70	N	
UNION CITY	K4MVE	146.655	146.055	N	
WAVERLY	WR4AYB	146.685	146.085	N	
WINCHESTER	WR4AFH	146.22	146.82	N	

SIX METERS

KNOXVILLE	WB4IOB	52.15	53.15	N
KNOXVILLE	WA4YON	52.64	53.64	N
KNOXVILLE	K4HXD	52.76	52.525	N
LAFOLLETTE	K4BGW	52.17	53.17	
MEMPHIS	WR4AZK	52.01	53.01	N

220 MHZ

CHATTANOOGA	K4VCM	223.18	224.78	D	A
CHATTANOOGA	WA4ZOK	223.30	224.90		
GREENEVILLE	WB4NKM	223.34	224.94		A
KNOXVILLE	WA4YON	222.86	224.46		
NASHVILLE	WR4	223.38	224.79	N	

450 MHZ

ALAMO	WB4EDS	448.75	443.75	N	L
CHATTANOOGA	WA4ZOK	439.25	427.25		V
GREENEVILLE	K4OTM	439.25	427.25	N	V
KNGSPT/HLSTON MT	WR4ADO	449.50	444.50	D	EA
KNOXVILLE	K4HXD	449.30	444.30	N	
MEDINA	K4BEZ	447.05	442.05	N	AL
MEMPHIS	WB4BDO	448.40	443.40	N	A
MEMPHIS	WD4APK	449.30	444.30	N	
MEMPHIS	WA4FNL	449.50	444.50	N	A

STATE DIRECTORS AND ASSISTANTS LISTED ON BACK COVER

FOR CHANGES IN THE CVRA REPEATER INDEX-CONTACT YOUR STATE DIRECTOR OR JOURNAL EDITOR

REPRESENTING UHF-VHF INTERESTS THROUGHOUT VIRGINIA
NORTH CAROLINA, SOUTH CAROLINA, TENNESSEE & WEST VIRGINIA

VIRGINIA REPEATERS

TWO METERS

ALEXANDRIA	WR4AXB	146.055	146.665	M	
ALEXANDRIA	W4HFH	147.72	147.12	M	
ALEXANDRIA	WA4CCF	147.915	147.315	M	
BARREN SPRINGS	WR4AFQ	146.07	146.67	D	
BERRYVILLE	WR4APE	147.90	147.30	M	
BLACKSBURG	WA4YRJ	146.115	147.715		
BLAND	N4AZJ	144.75	145.35	N	
BLUE RIDGE	WA4MCP	147.765	147.165	N	C
BLUEFIELD	W8MOP	144.89	145.49		A
BLUEFIELD	WD8OGY	146.415	147.015		PA
BRIARPATCH MT	WR4AHR	147.69	147.09		
BRISTOL	K4ILW	146.07	146.67	D	A
BRISTOL	W4SZP	146.28	146.88	D	
BRUMLEY MT	WR4ATJ	146.01	146.61	N	
BUFFALO MT	N4AZI	144.61	145.21	N	
CHARLOTTESVILLE	WR4ATL	146.16	146.76		
CHARLOTTESVILLE	WR4ATL	146.325	146.925		
CHESAPEAKE	N4SD	146.19	146.79		
CHRISTIANSBURG	WA4HBC	147.855	147.255	N	
CLIFTON FORGE	K4QEL	147.90	147.30		
COLE MTN	WR4BCI	147.93	147.33	N	
COVINGTON	WB4CAV	146.22	146.82	D	
CRIMORA	W4PNT	147.675	147.075	D	
CULPEPPER	WR4BCS	147.72	147.12	M	
DANTE	WD4CYZ	146.235	146.835	N	
DANVILLE	WR4BDN	146.10	146.70		
DANVILLE	WR4AHG	147.95	147.35	N	
DANVILLE(DCC)	WB4GJG	146.325	146.925		
DUBLIN	WB4UQZ	147.78	147.18	D	
ELLIS KNOB	W4WRN	147.645	147.045	N	
FAIRFAX	W4LBL	146.19	146.79	D	A
FALLS CHURCH	W4AQD	144.75	145.35	M	
FARMVILLE	WR4ASW	146.31	146.91		
FOREST	WR4ADY	146.16	146.76		EA
FRANKLIN	K4SPS	147.90	147.30	N	PA
FREDRICKSBURG	WB4LNT	147.615	147.015	N	
FRONT ROYAL	WB4NER	144.75	145.35	M	P
GALAX	WR4AHR	144.53	145.13	D	
GALAX	WA4ZIV	144.83	145.43	N	
GATE CITY	WD4GTA	147.945	147.345	N	
GRUNDY	K4HWQ	147.90	147.30	N	A
GUM SPRINGS	KB4GX	147.87	147.27	N	
HAMPTON	WR4ALW	146.13	146.73		
HAMPTON	WR4AFT	146.34	146.94	N	T
HAZEL MT	WD4CYZ	146.235	146.835	N	
HIGH KNOB	K4AXO	147.81	147.21	N	
JOHNSONS MT	WB4JBJ	147.705	147.105		LR
JONESVILLE	WA4OVC	146.31	146.91		
KLMNRK/SALUDA	WA4UAF	147.93	147.33		
LEXINGTON	WA4WBD	146.07	146.67		
LYNCHBURG	WR4AXO	146.01	146.61	N	
LYNCHBURG	W4OSH	147.975	147.375	N	
MANASSAS	WD4JCE	144.67	145.27	M	R
MANASSAS	W1CRO	146.37	146.97		PA
MARION	N4BIW	146.04	146.64		
MARTINSVILLE	AB4L	147.885	147.285	D	
MCLEAN	WD4IWG	147.81	147.21	M	R
NEW MARKET	WR4ATG	146.025	146.625	M	
NORFOLK	WB4LJM	146.10	146.70		
PETERSBURG	K4SII	147.78	147.18	N	
PETERSBURG	WR4BBU	147.84	147.24	D	
PETERSBURG	WR4AWC	147.99	147.39	N	
PORTSMOUTH	K4LMY	146.25	146.85	N	
RICHMOND	WB4QEY	146.04	146.64		
RICHMOND	WR4ACW	146.28	146.88	N	PA
RICHMOND	W4ZA	146.34	146.94		T
RICHMOND	WA4DMO	147.66	147.06	N	
RIPPLE MEADE	K4TUE	146.31	146.91	N	
ROANOKE	WR4AHT	146.34	146.94	N	A
ROANOKE	W4CA	146.385	146.985	D	EAL
SALEM	WR4AFE	146.28	146.88	N	
SHENANDOAH	WB4DAK	147.855	147.255	N	P
SOUTH BOSTON	WR4AYU	146.46	147.06		
STAUNTON	WD4JEK	147.975	147.375	N	C
STERLING	WA4TXE	146.115	146.715	M	
SUFFOLK	WR4AKS	146.40	147.00	N	PA
TAZEWELL	WD4DZE	147.75	147.15	N	
TYSONS CORNER	K4VYN	146.31	146.91	D	PA
VIRGINIA BEACH	WB2YVN	146.01	146.61	N	C
VIRGINIA BEACH	WA4KXV	146.37	146.97		EA
VIRGINIA BEACH	WA4SBC	147.645	147.045	N	
VIRGINIA BEACH	WA4SBC	147.645	147.045	N	
WARRENTON	WB4FJT	147.765	147.165	M	
WAYNESBORO	W4BLD	147.63	147.03		PA
WILLIAMSBURG	W4NTG	146.07	146.67	N	
WINCHESTER	W4RKC	146.22	146.82		EA
WOODBRIDGE	WB4FQR	147.84	147.24	M	A

SIX METERS

ABINGTON	WR4ATJ	52.01	53.01	M	L
ALEXANDRIA	WA4CCF	52.13	53.13	M	P
CHARLOTTESVILLE	WR4ATZ	52.525	52.525	N	RBC
DANVILLE(DCC)	WB4GJG	52.13	53.13		
LEXINGTON	WR4BCI	52.01	53.01	N	
LYNCHBURG	WB4DBB	52.15	53.15		
NORFOLK	WR4ATK	53.525	52.525	N	

220 MHZ

ALEXANDRIA	WA4CCF	223.22	224.82	M	
FALLS CHURCH	N4CHP	222.22	223.82	M	
GALAX	WA4DFH	222.74	224.34	N	P
LYNCHBURG	WB4DBB	223.34	224.94		C
PORTSMOUTH	K4CRK	223.02	224.62	N	C
SUFFOLK	WA4JUO	222.34	223.94	N	C
TYSONS CORNER	K4GCM	222.34	223.94	M	

450 MHZ

ALEXANDRIA	WR4AAG	439.25	426.27	M	V
ALEXANDRIA	W4HFH	449.60	444.60	M	
ANNANDALE	WR4AQG	444.85	449.85	M	
ARLINGTON	K8ZOA	449.00	444.00	M	PL
CHARLOTTESVILLE	WR4ATL	449.25	444.25		
COLE MTN	WR4BCI	449.15	444.15	N	P
COVINGTON	WB4CAV	447.25	442.25	D	
FALLS CHURCH	WB8CRK	449.45	444.45	M	L
LYNCHBURG	WB4DBB	449.35	444.35		L
LYNCHBURG	WB4IUS	449.50	444.50	N	T
MANASSAS	WD4JCE	444.225	449.225	M	L
PETERSBURG	WR4BBU	449.50	444.50	D	
PETERSBURG	WR4BBZ	449.85	444.85	N	
PORTSMOUTH	K4MLY	449.25	444.25	N	
ROANOKE	W4CA	442.50	447.50	D	L
ROANOKE	WR4AFE	447.75	442.75	N	
TAZEWELL	WD4DZE	448.90	443.90	N	P
TYSONS CORNER	WR4ABR	444.75	449.75	M	
TYSONS CORNER	WB6GUS	448.50	443.50	M	
VIRGINIA BEACH	WA4KXV	449.95	444.95		
WAYNESBORO	W4BLD	449.05	444.05		
WAYNESBORO	W4BLD	449.30	444.30		PA
WOODBRIDGE	WB4FQR	444.90	449.90	M	

10 METERS

CHARLOTTESVILLE	K4RKA	29.60	29.60	N	RBC

ROHN TOWERS AND ACCESSORIES

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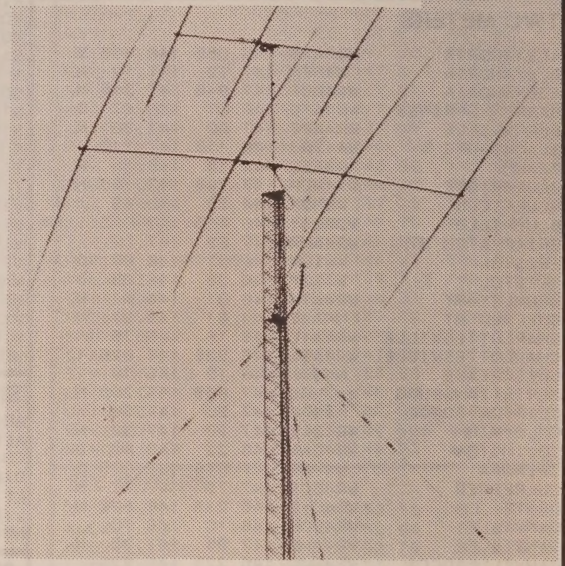

We can also supply ½ and 7/8'' hard line in aluminum or copper. We also have a limited stock of hard line connectors. If we do not have the connectors you need, they can be supplied within approximately ten days.

If you want or need something not listed above, call us, we may have it or can get it for you. All of the above items are standard stock items and we will try to fill your order promptly. We have a limited variety of utility pole hardware and can supply utility poles in the Greensboro, N. C. area only. We also install towers and antennas in the Greensboro area. Call us if you have a problem, we will design a system for you.

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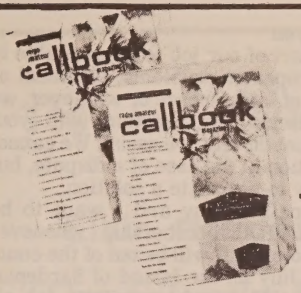

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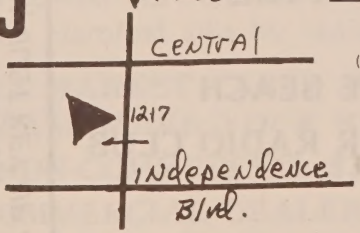

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N.C. DIRECTOR READY!

—Buff Buffington, W4VGZ

Let me introduce myself...I'm Ed "Buff" Buffington, W4VGZ. I have been active in the VHF and repeaters in North Carolina for 22 years. I have the good fortune of publishing over a dozen articles published in 73 Magazine — half of them concerning repeater controls and autopatch.

I built the first 07-67 Burlington repeater, the 78-18 Sanford machine, and the 475-075 Burlington Autopatch repeater.

My accomplishments are pale when compared to those of our North Carolina Vice-Director, Danny Hampton, K4ITL of Raleigh. Danny is truly a pioneer. The depth of his knowledge is truly amazing as he is a recognized authority on the full gamut of the FM repeater scene and is at the forefront of repeater linking and has demonstrated practical schemes for linking several repeaters for super coverage. Danny is the one that I always turn to whenever I need advice.

Now that the introductions have been made...let me now offer our assistance to you. Our jobs as Director and Vice-Director of North Carolina consist of frequency coordination, promotion, and communications. We are also offering you any assistance you might need for control circuits, duplexers, antenna and tower problems. If we don't have the answer to any of your questions, we will get the answer for you.

I feel it is also part of our job to be available to assist you in your repeater problems, technical or otherwise. In cases of interference or whatever, we will be glad to discuss the problem with you. Understand we cannot dictate, we assist. We cannot - ever - force a solution in the case of a dispute, but we certainly will try to negotiate a solution.

Just give us a call, Danny and I want to be available to our CVRA membership whenever needed. (Editor's Note: Buff will be out of the country March through July on the Island of Sardenia. Danny Hampton, K4ITl will be availabe for all duties while Buff is gone.)

NEW TRI-CITIES HAMFEST MAY 2-3

The new Tri-Cities (Tenn) hamfest will be held May 2-3 at the Appalachian Fairgrounds in Gray, Tennessee, about halfway between Johnson City and Kingsport off Highway 137. The hamfest is a combined effort of the Bristol, Johnson City, and Kingsport Amateur Radio Clubs.

Dealers and Flea Market venders may set up Friday after 12 noon, and after 6 a.m. Saturday or Sunday. The two day event will be held in secure buildings, with outside flea market, but in case of rain, flea market will be moved inside. For Info: Mary Biggs, P.O. Box 3682 CRS, Johnson City, Tn. 37601 (615) 928-1818 after 5.

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A LETTER TO S.C. REPEATERS

—by Rich Tillotson, WA4SSJ

It is difficult, without some experience, to set goals for the State of South Carolina concerning CVRA activities. However, I am looking forward to meeting many new friends as I acquaint myself with my responsibilities as Director.

I am committing myself to actively promoting CVRA, while the Association has already committed itself to assure that you may continue to communicate through your favorite repeater without fear of interference, or interruption.

The success of the organization is dependant on the members, besides, where can you obtain all the valuable information available in 4 issues of the CVRA Journal at the low price of only $3.00.

Don't hesitate to call myself or Al Harney, WB4URY my able Vice-Director. We are at your disposal for assistance or information such as you might need. We will do our best to answer any questions or request for assistance. Our names, addresses and phone numbers are listed on the back cover of the Journal. We also have appointed 3 assistant directors, who are listed in the Journal. These three top-notch Amateurs, well versed in VHF and FM were chosen from strategic locations throughout South Carolina to keep an ear on what is happening in their territory and report to myself and Al. With this network of communications, we hope to be able to have a good idea what is happening throughout our State.

Again, we hope you will allow us to press forward and make South Carolina an even better place to operate repeaters, and actively maintain a communications line throughout the state. If you need us, don't ever hesitate to call!

TENN. DIRECTOR SETS GOALS

—by Sam Kirby, WB4HAP

It is a pleasure for me and quite an honor to serve my District as Director, and with the able assistance of Cliff Hensley, WB4NKL, we look forward to communicating with our fellow Amateurs around Tennessee.

Cliff and I as your Vice-Director and Director will be available to assist you in any capacity we can as far as FM and Repeaters in our District of Tennessee.

We have set some goals for our first year as officers of CVRA for your District.

(1) Increase repeater membership in Tennessee. Large increases are needed in middle and West Tennessee. Present percentage statewide is 36%. Goal for 1981 is 55% and by the end of 1982, 75%.

(2) To appoint additional Assistant Directors ASAP to join the three officers we now have. Directors are needed in Western middle Tennessee and West Tennessee.

(3) To continue having booths at major Tennessee hamfest in an effort to provide CVRA-SERA info and solicit associate and full membership.

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- MIDLAND - 13-500,13-505,13-520
- REGENCY - HRT2,HR2,2A,2B,212,312 (No Sub Band)
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- HEATHKIT - HW-2021 ONLY
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BURKS RECEIVES COLUMBIA ARC AWARD

BOB BURKS, KC4LB was recently the recipient of the Columbia ARC's highest award. The William E. Wall, WA4WND Memorial Award is presented each year to the South Carolina Amateur who has contributed most to his hobby, the community and the club. Bob's wife, Ellen and his daughter, Alice were present for the presentation at the December Club Meeting.

JANUARY DIRECTORS MEETING PRODUCTIVE

New Directors and Vice-Directors were installed at the January annual meeting of CVRA-Southeastern Repeater Assn. The new officers which were elected last fall took over duties of running CVRA in their respective districts on January 1. (Director and Vice-Director listings are on the back cover of this book)

Every District was well represented at the meeting as President Lane Tarleton outlined goals and objectives for the organization in 1981. A Saturday night session on coordination of frequencies was held along with a question and answer session.

Minor CVRA Bylaw changes were voted by the Directors, which included the official name change to CVRA-Southeastern Repeater Association and also a new time and date schedule for Director and officer elections. The new changes will permit the Journal to publish nominees for each office in the November issue, with time available for additional nominees from Full Membership before actual deadlines. The system will greatly enhance communication between the nominating committee and all of Full Membership.

Each Director outlined plans of promoting CVRA by having booths at local hamfests and Conventions. Membership soliciting through letters to repeater owners was also discussed.

President Tarleton acknowledged and thanked outgoing Directors for their job over the past 2 years.

He also said he felt that this year's Director team seems to be the finest ever overall and believed they would help the organization with their ambitious goals for the year.

The meeting was adjourned after lunch Sunday afternoon.

THE RALEIGH AMATEUR RADIO SOCIETY'S 9TH ANNUAL

AN ARRL APPROVED

HAMFEST

$3.50 GENERAL ADMISSION

ACTIVITIES BEGIN AT 9:00 A.M.

APRIL 12 1981

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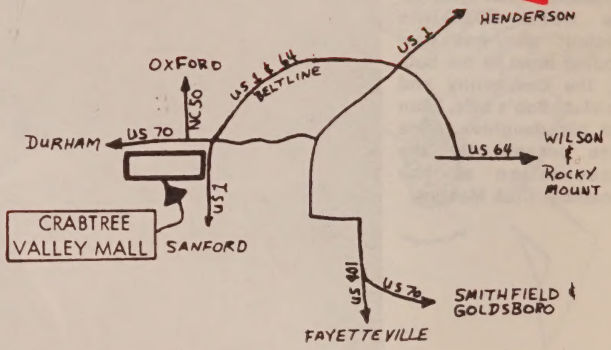

★ PRIZES!!! PRIZES!!! PRIZES!!!

1ST PRIZE – Choice of Kenwood TS130S HF transceiver and PS-30 12 volt power supply or I com 251-A multi-mode 2 meter transceiver with mirage B-108 80 watt amplifier. G.I.S.M.O. of Rock Hill, S.C. aided RARS in the purchase of this prize.

2ND PRIZE – Kilowatt three element Tri-Band Beam. This prize presented by RARS.

3RD PRIZE – Heavy duty CDE antenna rotor donated by Cornell-Dubilier Electronics of Fuquay-Varina, North Carolina.

MANY OTHER PRIZES WILL BE DRAWN ALL DAY SUNDAY!!!

★ **E-X-P-A-N-D-E-D- FLEA MARKET (Covered)**

★ **WALK TO NEARBY MOTELS AND RESTAURANTS**

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WR4AOE (146.28/146.88)

★ **SPECIAL INTEREST MEETINGS: Q.C.W.A., M.A.R.S., & OTHERS.**

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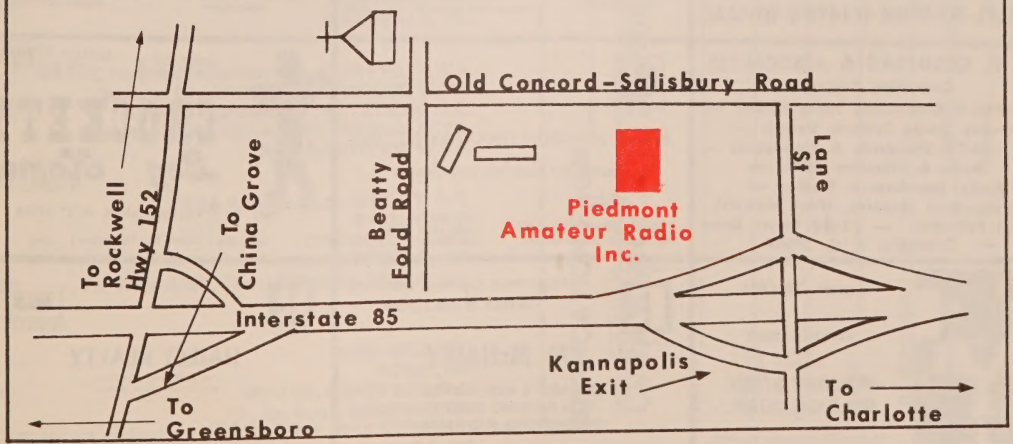

CHARLOTTE CLUB TO MAIL CVRA ASSOC MEMBERSHIP APPLICATIONS

The Mecklenburg ARS, who sponsors the Charlotte (N.C.) Hamfest March 21-22 will again this year offer the CVRA-Southeastern Repeater Association a "free" ride when they mail out their hamfest brochures. The club has agreed to insert CVRA furnished Associate Membership applications in some 30,000 brochures which are expected to go in the mail in late February.

The CVRA expresses its deepest gratitude to the Mecklenburg ARS for their fine public service effort. Let's all show Charlotte our thanks when we attend their hamfest in March. (editor)

RALEIGH (NC) HAMFEST APRIL 12

The Raleigh, N.C., Amateur Radio Society will sponsor their 9th Annual RARS Hamfest on April 12 at the Crabtree Valley Mall in Raleigh. The ARRL approved event will begin at 9 a.m. A hospitality room will be open Saturday night at the mall from 7 to 11 with a social and door prizes.

The Sunday hamfest will have special interest meetings and the large flea market under the covered parking deck of Crabtree Mall. Talkin is on 04-64 and 28-88. For Info: RARS Hamfest, P.O. Box 17124, Raleigh, N.C. 27619.

CHAPTER II !!!!!

Last issue we wrote a short blurb about a ham making a comment about CVRA, getting bigger and better...like his wife. Well we've received dozens of comments about this item, about wonder who he is. Well, you know a good newsman never divulges his news sources.

We thought we might tell you more about this fella. It seems according to Jean, W4TYU that he is also operating a rescue service for stranded repeater owners.

Gene Price, WA4YON, said he was making a visit to his 220/6-meter repeater site one night and his 4 wheel drive truck slid in a deep ditch. After about 30 minutes of effort he got it stuck on the frame with two opposite wheels off the ground.

Gene called our "mystery" hero on 6 meters and this feller dropped his work at home (where his wife is getting bigger and better) picked up a chain and tow cable and drove 25 miles to winch Gene out of the ditch.

Our mystery celebrity sure is a nice person...aren't they! (Editor)

If you are a repeater owner and you notice there is an "N" beside your repeater listing, that means you are not a full member of the CVRA. You may join for only $8.00 per year and have the Journal delivered to TWO persons you wish

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calendar of coming events

1981 HAMFEST CALENDAR

FEBRUARY
15 . . . . . PARA Hamfest, FAYETTEVILLE, W.VA.
22 . . . . . Winter Hamfest, ELKIN, N.C.
22 . . . . . Winterfest, VIENNA, VA.

MARCH
13-15 . . . . . ARRL National, ORLANDO, FLA.
21-22 . . . . . N.C. State ARRL, CHARLOTTE, N.C.
28-29 . . . . . Hamfest, Columbus, GA.

APRIL
12 . . . . . RARS Hamfest, RALEIGH, N.C.
24-26* . . . . . DAYTON, OHIO

MAY
2-3 . . . . . Tri-City Hamfest, J.C./KINGSPORT, TN.
3* . . . . . Blue Ridge ARC. GREENVILLE, S.C.
9-10 . . . . . Roa. Div. League Plan Meet, FALLS CH., VA.
16-17 . . . . . DFMA Hamfest, DURHAM, N.C.
23 . . . . . Gaston City Hamfest, GASTONIA, N.C.
23 . . . . Ant. Wireless Regional, WINSTON-SALEM, N.C.
23-24 . . . . . KNOXVILLE, TN.
24 . . . . . Roa. Val. ARC, ROANOKE, VA.
30 . . . . . COLUMBIA, S.C.

JUNE
7 . . . . . Tri-State ARA, HUNTINGTON, W.VA.
7 . . . . . MANASSAS, VA.
20-21 . . . . . Atlanta Hamvention, ATLANTA. GA.
27-28 . . . . . ARES Hamfest, GREENSBORO, N.C.

JULY
4-5 . . . . . W.Va. State ARRL, JACKSON'S MILL, W.VA.
18 . . . . . CARY, N.C.
18-19 . . . . . OAK RIDGE, TN.
26* . . . . . NASHVILLE, TN.

AUGUST
2 . . . . . SVARC Hamfest (Winchester), BERRYVILLE, VA.
2* . . . . . Jackson Cty ARC Hamfest, RIPLEY, W.VA.
15-16* . . . . . CFARS Hamfest, FAYETTEVILLE, N.C.
23 . . . . . East River ARC Hamfest, BLUEFIELD, W.VA.
30* . . . . . MORGANTOWN, W.VA.

SEPTEMBER
5 . . . . . CVRA Annual Meet, SHELBY, N.C.
5-6 . . . . . SHELBY, N.C.
13* . . . . . CINCINNATI, OHIO
14 . . . . . GAITHESBURG, MD.
26-27 . . . . . Va. State ARRL Conv. VIRGINIA BEACH, VA.

OCTOBER
4* . . . . . ROCK HILL, S.C.
4* . . . . . ROME, GA.
10* . . . . . WCARS, ASHEVILLE, N.C.
?? . . . . . (To Be Ann.), MEMPHIS, TN.
11* . . . . . Eastern N.C. Hamfest, NEW BERN, N.C.
24-25* . . . . . CHATTANOOGA, TN.

CVRA ASSOCIATE MEMBERSHIP

CLIP OR XEROX THIS HANDY APPLICATION AND PASS ON TO A FRIEND TO JOIN CVRA!

NOTE: Membership deadlines are 2 weeks prior to publication month. Applications received after deadline will receive next regularly scheduled Repeater Journal, February, May, August or November.

APPLICATION FROM _____ WHO RECOMMENDED CVRA!

CVRA ASSOCIATE MEMBERSHIP APPLICATION:

Name _____ Date _____

Address _____ Call: _____

City: _____ State: _____ Zip: _____

Phone: (____) _____ *Member of ARRL?* ___ *Yes* ___ *Life* ___ *No*

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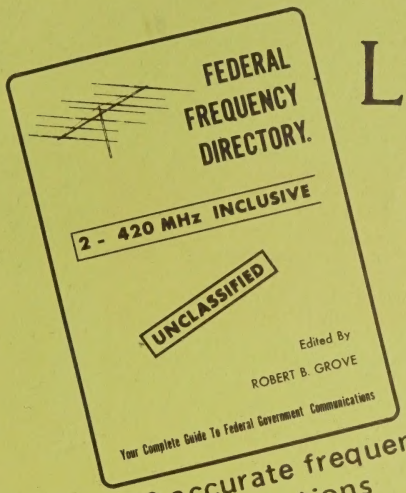

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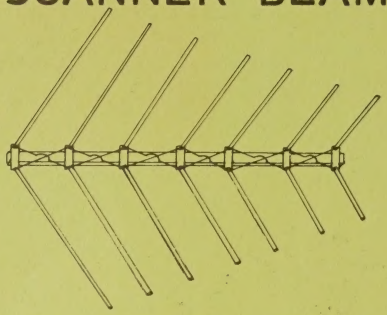

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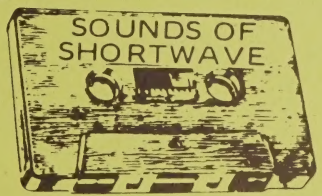

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